

# CURRICULUM VITAE

**Name:** Steven H. Hinrichs, M.D.

**Home and Campus Addresses:**

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Omaha, NE 68124  
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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:**

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:**

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

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<b>1992-present</b>	Associate Faculty, Creighton University/University of Nebraska Schools of Medicine, Pediatric Infectious Disease Division
<b>1991-present</b>	Director, Microbiology and Virology Laboratory, Pathology and Microbiology, University of Nebraska Medical Center
<b>1991-2002</b>	Associate Professor, Department of Pathology and Microbiology, University of Nebraska Medical Center
<b>1985-1987</b>	Medical Staff Fellow, Laboratory of Molecular Virology, National Institutes of Health
<b>1984-1991</b>	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:

<b>1997-present</b>	Director of Microbiology and Virology, The Nebraska Medical Center
<b>1997-present</b>	Director, Nebraska Public Health Laboratory at UNMC
<b>1998-2000</b>	Associate Director, University of Nebraska Medical Center Clinical Laboratories,
<b>1996-1997</b>	Director, Specialty Laboratory, University of Nebraska Medical Center
<b>1993-1996</b>	Director, Molecular Diagnostics, University of Nebraska Medical Center
<b>1991-1994</b>	Director, Clinical Virology Laboratory, University of Nebraska Medical Center
<b>1984-1991</b>	Staff Pathologist, Department of Medical Pathology, University of California, Davis, Medical Center

### Other Academic Appointments or Positions:

<b>2006-present</b>	Member, Information Science & Technology Dean’s Advisory Committee, UNO
<b>2005-2009</b>	Member, Board of Directors, Association of Public Health Laboratories
<b>2002-present</b>	Director, Nebraska Center for Biosecurity
<b>2001-2002</b>	Co-leader, Exploring Partnership Opportunities; Omaha Veterans Administration and the Nebraska Medical Center
<b>1998-2000</b>	Biosafety Officer
<b>1995-1996</b>	Member, Laboratory Redesign Committee
<b>1992-2003</b>	Program Member, Molecular, Cellular, and Structural Biology, Eppley Cancer Center
<b>1992-2000</b>	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)

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:

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

### Committee Assignments/National:

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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<b>2000-2002</b>	CDC: HIBBS-ELR Panel, advisor, Electronic Laboratory Reporting for National Surveillance Group
<b>2000-2006</b>	APHL: Informatics, Committee Chair
<b>2000</b>	ASCP: Member, Strategic Alliance Task Force
<b>1999</b>	ASCP: Member, New Business Development Task Force
<b>1999-2001</b>	Network/Leadership Council, CDC: Public Health Information Steering Committee – NEDSS
<b>1998-20001</b>	ASCP: (Association of Clinical Pathology) Business Development Committee
<b>1997</b>	November, CAP Laboratory Inspection, University of Iowa, Iowa City, IA
<b>1996-present</b>	Region VII Chlamydia Control Advisory Committee
<b>1995</b>	August, CAP Laboratory Inspection, University of Washington, Seattle
<b>1995</b>	December, CAP Laboratory Inspection, Viromed, Inc., Minneapolis, MN
<b>1993-1996</b>	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  $\beta$ 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.
66. Krause Boehm A, Strawhecker JA, Semmes OJ, Jankowski PE, Lewis R, **Hinrichs SH**. Analysis of potential phosphorylation sites in human T-cell leukemia virus type-1 Tax. *J Biomed Sci.* 1999 May-Jun;6(3):206-12.
67. Xie W, Wilder PJ, Stribley J, Chatonnet A, Rizzino A, Taylor P, **Hinrichs SH**, Lockridge O. Knockout of one acetylcholinesterase allele in the mouse. *Chem Biol Interact.* 1999 May 14;119-120:289-99.
68. Ratanasuwana W, Iwen PC, **Hinrichs SH**, Rupp ME. Bacteremia due to motile *Enterococcus* Species: clinical features and outcomes. *Clin Infect Dis.* 1999 May;28(5):1175-7.
69. Davis KR, **Hinrichs S**, Fidler JL, Henry TJ, Davis JR, Baker KS, Gordon BG, Gross TG. Post-transplant Epstein-Barr virus associated meningoencephalitis and lymphoid interstitial pneumonitis. *Bone Marrow Transplant.* 1999 Aug;24(4):443-4.
70. Iwen PC, Rupp ME, Schreckenberger PC, **Hinrichs SH**. Evaluation of the revised MicroScan dried overnight gram-positive identification panel to identify *Enterococcus* species. *J Clin Microbiol.* 1999 Nov;37(11):3756-8.

71. Bosilevac JM, Olsen RJ, Bridge JA, **Hinrichs SH**. Tumor cell viability in clear cell sarcoma requires DNA binding activity of the EWS/ATF1 fusion protein. *J Biol Chem* 1999 Dec 3;274(49):34811-8.
72. Garvin KL, **Hinrichs SH**, Urban JA. Emerging antibiotic-resistant bacteria. Their treatment in total joint arthroplasty. *Clin Orthop Relat Res*. 1999 Dec;(369):110-23. Review.
73. Iwen PC, Sigler L, Tarantolo S, Sutton DA, Rinaldi MG, Lackner RP, McCarthy DI, **Hinrichs SH**. Pulmonary infection caused by *Gymnascella hyalinspora* in a patient with acute myelogenous leukemia. *J Clin Microbiol*. 2000 Jan;38(1):375-81.
74. Henry T, Iwen PC, **Hinrichs SH**. Identification of *Aspergillus* species using internal transcribed spacer regions 1 and 2. *J Clin Microbiol*. 2000 Apr;38(4): 1510-15.
75. Fey PD, Safranek TJ, Rupp ME, Dunne EF, Ribot E, Iwen PC, Bradford PA, Angulo FJ, **Hinrichs SH**. Ceftriaxone-resistant *Salmonella* infection acquired by a child from cattle. *N Engl J Med*. 2000 Apr 27;342(17):1242-9.
76. Jean D, Tellez C, Huang S, Davis DW, Bruns CJ, McConkey DJ, **Hinrichs SH**, Bar-Eli M. Inhibition of tumor growth and metastasis of human melanoma by intracellular anti-ATF-1 single chain Fv fragment. *Oncogene*. 2000 May 18;19(22):2721-30.
77. Xie W, Stribley JA, Chatonnet A, Wailder PJ, Rizzino A, McComb RD, Taylor P, **Hinrichs SH**, Lockridge O. Postnatal developmental delay and supersensitivity to organophosphate in gene-targeted mice lacking acetylcholinesterase. *J Pharmacol Exp Ther*. 2000 Jun;293(3):896-902.
78. Sudan DL, Kaufman SS, Shaw, BW Jr, Fox IJ, McCashland TM, Schafer DF, Radio SJ, **Hinrichs SH**, Vanderhoof JA, Langnas AN. Isolated intestinal transplantation for intestinal failure. *Am J Gastroenterol*. 2000 Jun;95(6):1506-15.
79. Li B, Stribley JA, Ticu A, Xie W, Schopfer LM, Hammond P, Brimijoin S, **Hinrichs SH**, Lockridge O. Abundant tissue butyrylcholinesterase and its possible function in the acetylcholinesterase knockout mouse. *J Neurochem*. 2000 Sep;75(3):1320-31.
80. Greiner TC, Abou-Elella AA, Smir BN, Orazi A, **Hinrichs S**, Anderson J, Gross T, Bierman P, Hauke R. Molecular epidemiology of EBNA-1 substrains of Epstein-Barr virus in post transplant lymphoproliferative disorders which have infrequent p53 mutations. *Leuk Lymphoma*. 2000 Aug;38(5-6):563-76.
81. Iwen PC, Tarantolo SR, Sutton DA, Rinaldi MG, **Hinrichs SH**. Cutaneous infection caused by *Cylindrocarpum lichenicola* in a patient with acute myelogenous leukemia. *J Clin Microbiol*. 2000 Sep;38(9):3375-8.
82. Didier J, Tellez C, Huang S, Davis DW, Bruns CJ, McConkey DJ, **Hinrichs SH**, Bar-Eli M. Regulation of tumor growth and metastasis of human melanoma by the CREB transcription factor family. *Mol Cell Biochem*. 2000 Sep;212(1-2):19-28.
83. Fey PD, Wickert RS, Rupp ME, Safranek TJ, **Hinrichs SH**. Prevalence of Non-0157:H7 Shiga toxin-producing *Escherichia coli* in diarrheal stool samples from Nebraska. *Emerg Infect Dis*. 2000 Sep-Oct;6(5):530-3. Erratum in: *Emerg Infect Dis* 2001 May-Jun; 7(3):491.
84. Mazlo J, Stanfield RL, Wilson IA, **Hinrichs SH**, Stezowski JJ. Preliminary X-ray diffraction studies of the transcriptional inhibitory antibody Fab41.4. *Acta Crystallogr D Biol Crystallogr*. 2001 Mar;57(Pt 3):462-4.
85. Olsen, RJ, **Hinrichs SH**. Phosphorylation of the EWS IQ domain regulates transcriptional activity of the EWS/ATF1 and EWS/FL I1 fusion proteins. *Oncogene*.

- 2001 Mar 29;20(14): 1756-64.
86. Goel A, Baranowska-Kortylewicz J, **Hinrichs SH**, Wisecarver J, Pavlinkova G, Augustine S, Colcher D, Booth BJ, Batra SK. 99mTc-labeled divalent and tetravalent CC49 single-chain Fv's: novel-imaging agents for rapid *in vivo* localization of human colon carcinoma. *J Nucl Med.* 2001 Oct;42(10):1519-27.
  87. Iwen PC, **Hinrichs SH**, Rupp ME. Utilization of the internal transcribed spacer regions as molecular targets to detect and identify human fungal pathogens. *Med Mycol.* 2002 Feb;40(1):87-109. Review.
  88. Olsen RJ, Tarantolo SR, **Hinrichs SH**. Molecular approaches to sarcoma therapy. *Sarcoma* 2002 Mar;6(1):27-42.
  89. Liang MH, Geisbert T, Yao Y, **Hinrichs SH**, Giam CZ. Human T-lymphotropic virus type 1 oncoprotein tax promotes S-phase entry but blocks mitosis. *J Virol.* 2002 Apr;76(8):4022-33.
  90. Carattoli A, Tosini F, Giles WP, Rupp ME, **Hinrichs SH**, Angulo FJ, Barrett TJ, Fey PD. Characterization of plasmids carrying CMY-2 from expanded-spectrum cephalosporin-resistant *Salmonella* strains isolated in the United States between 1996 and 1998. *Antimicrob Agents Chemother.* 2002 May;46(5):1269-72.
  91. Duysen EG, Stribley JA, Fry DL, **Hinrichs SH**, Lockridge O. Rescue of acetylcholinesterase knockout mouse by feeding a liquid diet; phenotype of the adult acetylcholinesterase deficient mouse. *Brain Res Dev Brain Res.* 2002 Jul 30;137(1):43-54.
  92. Stickle DF, Pirruccello SJ, Swindells S, **Hinrichs SH**. Discrepant results of 2 screening tests for anti-HIV antibody. *Clin Infect Dis.* 2002 Sep 15;35(6):773-4;author reply 774-5.
  93. Ebeler SE, Brenneman CA, Kim GS, Jewell WT, Webb MR, Chacon-Rodriguez L, MacDonald EA, Cramer AC, Levi A, Ebeler JD, Islas-Trejo A, Kraus A, **Hinrichs SH**, Clifford, AJ. Dietary catechin delays tumor onset in a transgenic mouse model. *Am J Clin Nutr.* 2002 Oct;76(4):865-72.
  94. Veligandla SR, **Hinrichs SH**, Rupp ME, Lien EA, Neff JR, Iwen PC. Delayed diagnosis of osseous blastomycosis in two patients following environmental exposure in nonendemic areas. *Amer J Clin Pathol.* 2002 Oct;118(4):536-541. Review.
  95. Fey PD, Said-Salim B, Rupp ME, **Hinrichs SH**, Boxrud DJ, Davis CC, Kreiswirth BN, Schlievert PM. Comparative molecular analysis of community- or hospital-acquired methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 2003 Jan;47(1):196-203.
  96. Holman CJ, Van Burik JA, **Hinrichs SH**, Balfour HH Jr. Specific detection of human BK polyomavirus in urine samples of immunocompromised patients. *Clin Diag Lab Immunol.* 2003 Jan;10(1):66-9.
  97. Stickle DF, McKenzie DA, Landmark JD, Pirruccello SJ, Post GR, Iwen PC, Thompson RB, **Hinrichs SH**. Effects of sterilizing gamma irradiation on bloodspot newborn screening tests and whole blood cyclosporine and tacrolimus measurements. *Am J Clin Pathol.* 2003 Feb;119(2):292-7.
  98. Birch NC, Stickle DF, Young A, Medina P, **Hinrichs SH**. Evaluation of urine specimen integrity in a public health STD screening program. *Am J Clin Pathol.* 2003 Apr; 119(4):516-21.
  99. Olsen RJ, Mazlo J, Koepsell SA, McKeithan TW, **Hinrichs SH**. Minimal structural elements of inhibitory anti-ATF1/CREB single-chain antibody fragment (scFv41.4).

- Hybrid Hybridomics. 2003 Apr;22(2):65-77.
100. Stickle DF, Birch NC, Pirruccello SJ, **Hinrichs SH**. Urine specimen integrity monitoring using the Vitros creatinine assay. *Clin Chem Acta*. 2003 Aug;334(1-2):253-5.
  101. Tarkin IS, Henry TJ, Fey PI, Iwen PC, **Hinrichs SH**. PCR rapidly detects methicillin-resistant *staphylococci* periprosthetic infection. *Clin Orthop Relat Res*. 2003 Sep;(414):89-94.
  102. 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. *Mycol Res*. 2004 Feb;108(Pt 2);117-25. *PMC 15119348*
  103. Mohamed AM, Bastola DR, Morlock GP, Cooksey RC, **Hinrichs SH**. Temperature-mediated heteroduplex analysis for detection of *pncA* mutations associated with pyrazinamide resistance and differentiation between *Mycobacterium tuberculosis* and *Mycobacterium bovis* using denaturing high-performance liquid chromatography. *J Clin Microbiol*. 2004 Mar;42(3):1016-23. *PMC 15004047*
  104. Iwen PC, Freifeld AG, Bruening TA, **Hinrichs SH**. Use of a panfungal PCR assay for detection of fungal pathogens in a commercial blood culture system. *J Clin Microbiol*. 2004 May;42(5):2292-3. *PMC 15131216*
  105. Samrakandi MM, Zhang C, Zhang M, Nietfeldt J, Kim J, Iwen PC, Olson ME, Fey PD, Duhamel GE, **Hinrichs SH**, Cirillo JD, Benson AK. Genome diversity among regional populations of *Francisella tularensis* subspecies *tularensis* and *Francisella tularensis* subspecies *holarctica* isolate from the United States. *FEMS Microbiol. Lett*. 2004 Aug 1; 237 (1):9-17. *PMC 15268932*
  106. Koepsell S, Bastola D, **Hinrichs SH**, Griep MA. Thermally denaturing high-performance liquid chromatography analysis of primase activity. *Anal Biochem*. 2004 Sep 15; 332(2):330-6. *PMC 15325302*
  107. Mohamed AM, Iwen PC, Tarantolo S, **Hinrichs SH**, 2004. *Mycobacterium Nebraskaense* sp. nov., a new slow-growing scotochromogenic species. *Inter J Syst Evol Microbiol*. 2004 Nov; 54 (Pt 6): 2057-60. *PMC 15545434*
  108. Volin SJ, **Hinrichs SH**, Garvin KL. Two-stage reimplantation of total joint infections: a comparison of resistant and non-resistant organisms. *Clin Orthop Relat Res*. 2004 Oct; (427):94-100. *PMC 15552143*
  109. Koepsell, SA, Hanson S, **Hinrichs SH**, Griep MA. Fluorometric assay for bacterial primases. *Anal Biochem*. 2005 April 15;339(2);353-5. *PMC 15797579*
  110. Mohamed AM, Kuyper DJ, Iwen PC, Ali HH, Bastola DR, **Hinrichs, SH**. Computational approach involving use of the internal transcribed spacer 1 region for identification of *Myobacterium* species. *J Clin Microbiol*. 2005 Aug;43(8):3811-7. *PMC 16081916*
  111. Chandio SH, Bastola DR, Iwen PC, **Hinrichs SH**. Identification of Pathogenic Fungi Using Computational and Molecular Biological Approaches. The 2005 IEEE International Conference on Electro Information Technology, May 2005 *PMC not available*
  112. Olsen RJ, Lydiatt WM, Koepsell SA, Lydiatt D, Johansson SL, Naumann S, Bridge JA, Neff JR, **Hinrichs SH**, Tarantolo SR. C-erb-B2(HER2/neu) expression in synovial sarcoma of the head and neck. *Head Neck* 2005 Oct;27(10):883-92. *PMC 16158422*
  113. Murphy AM, **Hinrichs SH**, Fox P, Stier D. Community and interjurisdictional legal preparedness. *J Law Med Ethics* 2005 Winter; 33 (4 Suppl): 73-6. *PMC 16689166*

114. Schweitzer BK, Kramer WL, Sambol AR, Meza JL, **Hinrichs SH**, Iwen PC. Geographic factors contributing to a high seroprevalence of West Nile virus-specific antibodies in humans following an epidemic. *Clin Vaccine Immunol*. 2006 Mar;13(3):314-8.
115. Koepsell SA, Larson MA, Griep MA, **Hinrichs SH** 2006 *Staphylococcus aureus* helicase but not *Escherichia coli* helicase stimulates *S. aureus* primase activity and maintains Initiation specificity. *J. Bacteriol*. 2006 Jul;188(13): 4673-80. *PMC 16788176*
116. Dempsey, MP, Nietfeldt, J, Ravel, J, **Hinrichs, SH**, Crawford, R, Benson, AK. Paired-end sequence mapping detects extensive genomic rearrangement and translocation during divergence of *Francisella tularensis* subspecies *tularensis* and *Francisella tularensis* subspecies *holarctica* populations. *J. Bacteriol* 2006 Aug; 188(16) 5904-14
117. Johnson, N, Sambol A, Fruhling A, **Hinrichs SH**. Towards the evaluation of a microbiology laboratory system. Proceedings of the Twelfth Americas Conference on Information Systems, August 2006.
118. Iwen PC, Tarantolo SR, Mohamed AM, **Hinrichs SH**. First report of *Mycobacterium nebraskense* as a cause of human infection. *Diagn Microbiol Infect Dis*. 2006 Dec;56(4):451-3. *PMC 16935454*
119. Fruhling AL, Sambol A, **Hinrichs SH**, deVreede G. Designing an emergency response system for electronic laboratory diagnostics consultation. HICSS 2006
120. Smith PW, Anderson AO, Christopher GW, Cieslak TJ, Devreede GJ, Fosdick GA, Greiner CB, Hauser JM, **Hinrichs SH**, Huebner KD, Iwen PC, Jourdan DR, Kortepeter MG, Landon VP, Lenaghan PA, Leopold RE, Marklund LA, Martin JW, Medcalf SJ, Mussack RJ, Neal RH, Ribner BS, Richmond JY, Rogge C, Roselle GA, Rupp, ME, Sambol AR, Schaefer JE, Sibley J, Streifel AJ, Von Essen SG, Warfield KL. Designing a biocontainment unit to care for patients with serious communicable diseases: a consensus statement. *Biosecur Bioterrorist*. 2006;4(4):351-65. *PMC17238819*
121. Sambol AR, **Hinrichs SH**, Hogrefe WR, Schweitzer BK. Performance of a commercial flavivirus (West Nile) IgM capture analyte specific reagents assay using a screening test for interfering factors (IF) during a West Nile virus epidemic season in Nebraska. *Clin Vaccine Immunol*. 2007 Jan;14(1):87-9. *PMC 17121982*
122. Li B, Schopfer LM, **Hinrichs SH**, Masson P and Lockridge O. Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry assay for organophosphorus toxicants bound to human albumin at Tyr 411. *Anal Biochem*. 2007 Feb 15;361(2):263-72. *PMC 17188226*
123. Chintakayala K, Larson MA, Grainger WH, Scott DJ, Griep MA, **Hinrichs SH**, Sultanas P. Domain swapping reveals that the C- and N-terminal domains of DnaG and DnaB, respectively, are functional homologues. *Molecular Microbiol*, 2007 Mar;63(6):1629-39. *PMC 17367384*
124. Sayood K, Bastola D, Iwen P, **Hinrichs SH**. Use of Average Mutual Information for Fungal and Mycobacterial Differentiation 2007 International Conference on Bioinformatics and Computational Biology (BIOCOMP'07: June 25-28, 2007)
125. Griep MA, Blood S, Larson MA, Koepsell SA, **Hinrichs SH**. Myricetin inhibits *Escherichia coli* DnaB helicase but not primase. *Bioorg Med Chem* 2007 Nov 15; 15(22):7203-8 *PMC 17851081*
126. Fey PD, Dempsey MP, Olson ME, Chrustowski MS, Engle JL, Jay JJ, Dobson ME, Kalasinsky KS, Shea AA, Iwen PC, Wickert RC, Francesconi SC, Crawford RM,

- Hinrichs SH.** Molecular Analysis of *Francisella tularensis* Subspecies *tularensis* and *holarctica*. Am J Clin Pathol 2007;128(6):926-35 [PMC18024317](#)
127. Dempsey MP, Dobson M, Zhang C, Zhang M, Lion C, Gutierrez-Martin CB, Iwen PC, Fey PD, Olson ME, Niemeyer D, Francesconi S, Crawford R, Stanley M, Rhodes J, Wagner DM, Vogler AJ, Birdsell D, Keim P, Johansson A, **Hinrichs SH**, Benson AK. Genomic deletion marking an emerging subclone of *Francisella tularensis* subsp *holarctica* in France and the Iberian Peninsula. Appl Environ Microbiol. 2007 Nov; 73(22):7465-70. [PMC 17890329](#)
  128. Duysen EG, Li B, Carlson M, Li YF, Wieseler S, **Hinrichs SH**, Lockridge O. Increased Hepatotoxicity and Cardia Fibrosis in Cocaine Treated Butyrylcholinesterase Knockout Mice. Basic & Clinical Pharmacology & Toxicology (2008) 103 (6):514-521. [PMC 18577514](#)
  129. Chintakayala K, Larson MA, Griep MA, **Hinrichs SH** and Sultanas P. Conserved residues of the C-terminal p16 domain of primase are involved in modulating the activity of the bacterial primosome. Mol Microbiol. 2008 Apr;68(2):360-71. [PMC 18366438](#)
  130. Koepsell SA, Larson MA, Frey CA, **Hinrichs SH** and Griep MA. *Staphylococcus aureus* Primase Has Higher Initiation Specificity, Interacts with Single-stranded DNA Stronger, but Is Less Stimulated by Its Helicase than *Escherichia coli* Primase. Mol Microbiol (2008) 68(6):1570-82. [PMC 18452509](#)
  131. Lockridge O, Xue W, Gaydess A, Grigoryan H, Ding S, Schopfer L, **Hinrichs SH**, Masson P. Pseudo-esterase activity of human albumin: slow turnover on Tyr 411 and stable acetylation of 82 residues including 59 lysines. J Biol Chem. 2008 283(33): 22582-90. [PMC 18577514](#)
  132. Ding SJ, Carr J, Carlson JE, Xue W, Li Y, Schopfer LM, Bin L, Nachon F, Asojo O, Thompson CM, **Hinrichs SH**, Masson P, Lockridge O. Five tyrosines and two serines in human albumin are labeled by the organophosphorus agent FP-biotin. Chem Res Toxicol 2008 21(9): 1787-94. [PMC 18707141](#)
  133. Larson MA, Bressani R, Sayood K, Corn JE, Berger JM, Griep MA and **Hinrichs SH**. Hyperthermophilic *Aquifex aeolicus* initiates primer synthesis on a limited set of trinucleotides comprised of cystosines and guanines. Nucleic Acids Res. 2008 Aug 6:1-10. [PMC 18684998](#)
  134. Duysen EG, Li B, Carlson M, Li YF, Wieseler S, **Hinrichs SH**, Lockridge O. Increased hepatotoxicity and cardiac fibrosis in cocaine-treated butyrylcholinesterase knockout mice. Basic Clinic Pharmacol Toxicol. 2008 Dec;103(6):514-21. [PMC 19067679](#)
  135. Sambol, AR, **Hinrichs SH**. Evaluation of a new West Nile Virus lateral-flow rapid IgM assay. J Virol Methods 2009 Jan 9. [PMC19138705](#)
  136. Li B, Schopfer LM, Grigoryan H, Thompson CM, **Hinrichs SH**, Masson P, Lockridge O. Tyrosines of human and mouse transferring covalently labeled by organophosphorus agents: a new motif for binding to proteins that have no active site serine. Toxicol Sci 2009 (1):144-55. [PMC 18930948](#)
  137. Bills ND, **Hinrichs SH**, Aden TA, Wickert RS, Iwen PC. Molecular identification of *Mycobacterium chimaera* as a cause of infection in a patient with chronic obstructive pulmonary disease. Diagn Microbiol Infect Dis. 2009 Mar;63(3):292-5. [PMC19216940](#)
  138. Chintakayala K, Machon C, Haroniti A, Larson MA, **Hinrichs SH**, Griep MA, Sultanas, P Allosteric regulation of the primase (DnaG) activity by the clamp-loader (tau) in vitro. Mol.Microbiol 2009 Apr;72(2):537-49 [PMC 19415803](#)



## Curriculum Vitae

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139. Barabote, RD, Xie G, Brettin TS, **Hinrichs SH**, Fey PD, Jay JJ, Engle JL, Godbole SD, Noronha JM, Scheuermann RH, Zhou LW, Lion C, Dempsey MP Complete Genome Sequence of Francisella tularensis Subspecies holarctica FTNF002-00 *PMC 19756146*
140. Napier JE, **Hinrichs SH**, Lampen F, Iwen PC, Wickert RS, Garrett JL, Aden TA, Restis E, Curro TG, Simmons LG, Armstrong DL. An outbreak of avian mycobacteriosis caused by Mycobacterium intracellulare in little blue penguins (Eudyptula minor). *J Zoo Wildl Med.* 2009 Dec;40(4):680-6. *PMC 20063814*
141. Bryant KA, Kinkead LC, Larson MA, **Hinrichs SH**, Fey PD. Genetic analysis of the Staphylococcus epidermidis Macromolecular Synthesis Operon: Serp1129 is an ATP binding protein and sigA transcription is regulated by both sigma- and sigmaB-dependent promoters. *BMC Microbiol.* 2010 Jan 12;10(1)8. *PMC 20067631*
142. Nalbantoglu U, Sayood K, Dempsey MP, Iwen PC, Francesconi SC, Barabote RD, Xie G, Brettin TS, **Hinrichs SH**, Fey PD. Large direct repeats are responsible for genomic rearrangements between a clinical isolate of Francisella tularensis subsp tularensis A.I and Schu S4. *PLoS One* 2010 Feb 3;5(2)e9007 *PMC: 20140244*
143. Sambol AR, Abdalhamid B, Lyden ER, Aden TA, Noel RK, **Hinrichs SH**. Use of rapid influenza diagnostic tests under field conditions as a screening tool during an outbreak of the 2009 novel influenza virus: Practical considerations. *J Clin Virol.* 2010 Jan 15. *PMC 20080438*
144. Larson MA, Griep MA, Bressani R, Chintakayalo K, Soutlanas P, **Hinrichs SH**. Class-specific restriction define primase interactions with DNA template and replicative helicase. *Nucleic Acids Res.* 2010 June 38;(13)1-12. *PMC: 20591822*
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*.

### Chapters in books:

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.

## Curriculum Vitae

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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.
9. **Hinrichs, S.H.**, Contributor: in Jacobs, D.S., Demott, W.R., Grady, H.J., Horvaat, R.T., Huestis, D.W., Kasten Jr., B.L., (Eds.) Laboratory Test Handbook, C O N C I C E, LEXI-COMP Inc., Hudson (Cleveland), 1996.
10. **Hinrichs, S.H.**, S. Haggerty, C. Harrison. Viral Diseases. In: J. Linder and I. Damjanov, (Eds.) Anderson's Pathology, Mosby-Year Book, Chap. 36, 1:886-950.
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 (103<sup>rd</sup> 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 Antonio 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.



Table A-8 DoD Emergency Funding by Appropriation Title .A-4. Table A-9 DoD Emergency Funding by Military Department .A-4. The DoD must modernize key capabilities. To address the erosion of our competitive military advantage, the Joint Force must become more lethal, resilient, agile, ready, and interoperable with allies and partners. Specifically, the Joint Force must be capable of operating effectively in contested domains against highly capable adversaries. • Lethal. • Postures. The DoD must build a combat-credible, resilient force posture to enhance deterrence and warfighting effectiveness in priority theaters, while placing the burden of escalation on potential adversaries. • Employs. View Respiratory Protection Research Papers on Academia.edu for free. As part of a wider project, this study assessed how this apparently normalised experience affects residents' perceptions of health impacts, and whether it is important to protect themselves from ash inhalation. A survey of 749 residents found little evidence of normalisation. Respondents identified a range of symptoms (including eye irritation, low mood, sore throat, cough) perceived to be associated with ash exposure, with 67% experiencing at least one symptom. KEYWORDS UVC LED, air disinfection, aerosolized microorganism, pathogens, viruses, fungi, nebulizing, inactivation rate constant. M. microorganism transmission via air holds an important position in nosocomial infections with viruses, bacteria, and fungi (1, 2). Exposure to airborne fungi, such as Aspergillus, Alternaria, and Cladosporium, is related to several respiratory diseases (3-5). Fungal contamination of indoor air is continuous irrespective of seasonal and regional change (6-9). indoor air disinfection and development of air purification systems to control patho-genic microorganisms, including viruses, bacteria, and fungi (10). In order to ensure microbial safety of air, many studies utilizing UV irradiation have been performed (11-14).