

CURRICULUM VITAE

June 2015

NAME IN FULL: Peter C. Iwen, MS, PhD, D(ABMM), SM(ASCP)

CAMPUS ADDRESS: University of Nebraska Medical Center
Department of Pathology and Microbiology
685900 Nebraska Medical Center
Omaha, NE 68198-5900
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EDUCATION:

- 1997-01 Ph.D., Medical Sciences (Infectious Diseases)
Department of Internal Medicine
University of Nebraska Medical Center, Omaha, NE
Thesis, "*Characterization of the internal transcribed spacer regions of the rDNA gene complex of human fungal pathogens*"
September 2001; Advisor, **M.E. Rupp, MD**
- 1979-82 M.S., Medical Microbiology,
Department of Medical Microbiology
University of Nebraska Medical Center; Omaha, NE
Thesis, "*Treatment of experimental pulmonary cryptococcosis in the immunosuppressed mice with ketoconazole and amphotericin B*"
December 1982; Advisor, **N.G. Miller, PhD**
- 1972-76 B.S., Bacteriology,
North Dakota State University; Fargo, ND

POST-DEGREE TRAINING:

- 12/2013 Recertified with the Committee on Postgraduate Educational Programs as a Diplomat of the American Board of Medical Microbiology, D(ABMM)
Current through December 2016
- 12/2010 Recertified with the Committee on Postgraduate Educational Programs as a Diplomat of the American Board of Medical Microbiology, D(ABMM)
Through December 2013
- 07/2007 Original certification with the Committee on Postgraduate Educational Programs as a Diplomat of the American Board of Medical Microbiology, D(ABMM)
Through December 2010

- 07/1993, 07/1998,
07/2003, 07/2008 Recertified with the National Registry of Microbiologists as a
Specialist Microbiologist in Public Health and Medical Laboratory
Microbiology, SM(NRM)
Through December 2013
- 07/1988 Original certification with the National Registry of Microbiologists as
a Specialist Microbiologist in Public Health and Medical Laboratory
Microbiology, SM(NRM)
Through December 1993

ACADEMIC APPOINTMENTS:

- 2009-present Professor, University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha
- 2006-present Continuous (Tenure), University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha
- 2008-13 Associate Professor (Special), University of Nebraska Medical
Center, College of Public Health, Department of Epidemiology,
Omaha
- 2003-09 Associate Professor, University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha
- 1996-03 Assistant Professor, University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha
- 1986-00 Adjunct Instructor, Iowa Western Community College,
Nursing Department, Council Bluffs
- 1993-96 Instructor, University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha
- 1988-93 Instructor (Courtesy), University of Nebraska Medical Center,
College of Medicine, Department of Pathology and Microbiology,
Omaha

CERTIFICATIONS AND LICENSES:

- 2007- present Diplomat, American Board of Medical Microbiology.
American Academy of Microbiology, D(ABMM)
- 2005- present Specialist Microbiologist.
American Society of Clinical Pathologists, SM(ASCP)

1988- 2013	Specialist Microbiologist in Public Health and Med. Lab. Microbiol. The National Registry of Certified Microbiologists, SM(NRM)
1992-2010	Clinical Laboratory Scientist in Microbiology. The Nat. Certification Agency for Med Lab Personnel, CLS/M
1984-2005	Microbiologist. American Society of Clinical Pathologists, M(ASCP)

GRANT/CONTRACT SUPPORT:

Pending

2015-20 ASPR Ebola Preparedness and Response Agreement
ASPR EP-U3R-15-002
NE DHHS (contractual)
\$128,400 (direct\$128,400)
Principal Investigator, **PC Iwen**

Active

2015-16 PHEP Supplemental for Ebola Preparedness
CDC-RFA-TP12-12010302SUPP15
NE DHHS (contractual)
\$645,150 (direct\$645,150)
Principal Investigator, **PC Iwen**

2015-18 ELC Ebola Supplemental Agreement
CDC-FOA-CK14-1401-PPHFSUPP15
NE DHHS (contractual)
\$317,988 (direct \$317,988)
Principal Investigator, **PC Iwen**

2015 TB Agreement
TB Elimination and Laboratory Cooperative Agreement (CDC)
CDC/NE DHHS (contractual)
\$53,390 (direct \$53,390)
Principal Investigator, **PC Iwen**

2015 HIV Agreement
NE DHHS (contractual)
\$8,000 (direct \$8,000)
Principal Investigator, **PC Iwen**

2014-15 Special Pathogens Laboratory Services Agreement
Epidemiology and Laboratory Capacity for ID (CDC)
NE DHHS (contractual)
\$406,821 (direct \$406,821)
Principal Investigator, **PC Iwen**

- 2014-15 Biological and Chemical Terrorism Laboratory Subgrant
Public Health Emergency Preparedness Program (CDC)
NE DHHS (contractual)
\$615,000 (direct \$615,000)
Principal Investigator, **PC Iwen**
- 2014-15 STD Agreement
NE DHHS (contractual)
\$351,750 (direct \$351,750)
Principal Investigator, **PC Iwen**
- 2014-15 Hospital Preparedness Subgrant
National Bioterrorism Hospital Preparedness Program (CDC)
NE DHHS (contractual)
\$95,000 (direct \$95,000)
Principal Investigator, **PC Iwen**
- 2014-15 Epidemiology Laboratory Information Technology Agreement
CDC/NE DHHS (contractual)
\$57,600 (direct \$57,600)
Principal Investigator, **PC Iwen**
- Completed**
- 2013-14 Hospital Preparedness Subgrant
CDC/NE DHHS (contractual)
\$161,680 (direct \$161,680)
Principal Investigator, **PC Iwen**
- 2013-14 STD, HIV, TB Agreement
NE DHHS (contractual)
\$412,100 (direct \$412,100)
Co-Investigator, **PC Iwen** and SH Hinrichs
- 2013-14 Biological and Chemical Terrorism Laboratory Subgrant
CDC/NE DHHS (contractual)
\$600,000 (direct \$600,000)
Principal Investigator, **PC Iwen**
- 2013-14 Epidemiology Laboratory Services Agreement
NE DHHS (contractual)
\$412,800 (direct \$412,800)
Principal Investigator, **PC Iwen** 2013-14
- 2013-14 Special Pathogens Laboratory Services Agreement
Epidemiology and Laboratory Capacity for ID (CDC)
NE DHHS (contractual)
\$384,269 (direct \$384,269)
Principal Investigator, **PC Iwen**

- 2013-14 TB Elimination and Laboratory Cooperative Agreement
CDC/NE DHHS (contractual)
\$320,142 (direct \$320,142)
Co-Investigator , **PC Iwen** and P. Infield
- 2013 Laboratory Information Management Systems Integration
CDC/APHL
\$150,000 (\$150,000 direct)
Principal Investigator, **PC Iwen**
- 2013 Reproducibility of MICs using Etest on *Neisseria gonorrhoeae* isolates
Association of Public Health Laboratories
\$10,000 (direct \$10,000)
Principal Investigator, **PC Iwen**
- 2011-12 BAL and ETA Samples to Evaluate IVD Device to Detect Bacteria
Kimberly-Clark Corporation
\$12,447 (direct \$9,982)
Principal Investigator, **PC Iwen**
- 2007-12 Rapid Identification of Biological Warfare Agents
U.S. Army
\$2,688,429 (direct \$338,611)
Co-Investigator, **PC Iwen** and SH Hinrichs
- 2011 TB NAAT Expansion Project
Association of Public Health Laboratories, Inc.
\$64,314 (direct \$64,314)
Principal Investigator, **PC Iwen**
- 2007-10 Disease Detection and Prevalence Estimate Through Group Test
NIH R01
\$718,840
Co-Investigator, **PC Iwen** and C. Bilder
- 2009 Clinical Evaluation of the Xpert Influenza Assay for EUA
Cepheid
\$4,200 (direct \$4,200)
Principal Investigator, **PC Iwen**
- 2005-09 *Candida* Surveillance Study (CASS)
Merck & Co., Inc.
\$7,790 (direct \$7,790)
Principal Investigator, **PC Iwen**
- 2008 TRUST 12, Gram-negative/*Staphylococcus/Enterococcus* Surveillance
Ortho-McNeil Pharmaceuticals
\$4,500 (direct \$2,500)

- Principal Investigator, **PC Iwen**
- 2007 Doripenem Antimicrobial Susceptibility Test Using E-test
Ortho McNeil Pharmaceuticals
\$2,500 (direct \$2,500)
Principal Investigator, **PC Iwen**
- 2007 Highly Drug Resistant Gram-Negative Rod Reference Collection
Novartis Institute for Biomedical Research, Inc.
\$5,100 (direct \$5,100)
Principal Investigator, **PC Iwen**
- 2006-07 Design Validation Study, Synergies Plus Gram Positive Panel D
Dade MicroScan, Inc.
\$20,000 (direct \$15,873)
Principal Investigator, **PC Iwen**
- 2004-06 Critical Reagents Program/Parent
Point One, LLC
\$458,055 (direct \$423,668)
Co-Investigator, **PC Iwen** and SH Hinrichs
- 2005-06 Synergies Plus Gram Positive, Panel C
Dade Behring MicroScan
\$40,000 (direct \$10,600)
Principal Investigator, **PC Iwen**
- 2004-05 Bioterrorism and Public Health Emergency Course
USDHHS Health Resources Services Administration
\$150,000 (direct \$150,000)
Co-Investigator, PC Iwen and P Muellenburger
- 2004-06 Genome Biology of *Francisella tularensis*
NIH RO1
\$250,000
Co-investigator, **PC Iwen** and A Benson
- 2004 West Nile Virus Detection of IgM ELISA Clinical Protocol
InBios International, Inc.
\$12,720 (direct \$10,600)
Principal Investigator, **PC Iwen**
- 2003-04 Clinical Trial for Rapid Neg ID4 Panels
Dade Bering, MicroScan Division
\$22,500 (direct \$17,857)
Principal Investigator, **PC Iwen**
- 2003-04 Comparison of Phoenix ID/AST System to MicroScan Walkaway 96

- Becton Dickinson and Co.
\$10,500 (direct \$8,333)
Principal Investigator, **PC Iwen**
- 2003 Conventional Antibiotic Qualification 9 Clinical Trial
Dade Bering, MicroScan Division
\$35,000 (direct \$28,689)
Principal Investigator, **PC Iwen**
- 2002-04 Molecular Characterization and Pathogenesis of *Francisella tularensis*"
UNL/UNMC Vice Chancellors for Research
\$210,000
Co-Investigator, **PC Iwen** and SH Hinrichs
- 2002 Practice Guideline for Treatment of Suspected and Proven Candidiasis with
Fluconazole in Non-Neutropenic Patients
Pfizer Pharmaceutical
\$6,500 (direct \$6,500)
Co-Investigator, **PC Iwen** and P. Smith
- 2001-02 A Phase II, Randomized, Parallel, Placebo-Controlled, Double-Blind,
Multicenter Efficacy and Safety Study of Rmoplanin and Placebo in
Neutropenic Oncology Patients Identified as Asymptomatic Carriers of
Vancomycin-Resistant *Enterococcus* (VRE)
IntraBiotics Pharmaceuticals, Inc.
\$14,500 (direct \$14,500)
Co-Investigator, **PC Iwen** and J. Vose
- 2001-02 Evaluation of the WAVE System to Identify Fungal Pathogens
Transgenomic, Inc.
\$50,000 (direct \$50,000)
Co-Investigator, **PC Iwen** and SH Hinrichs
- 2001 Dried overnight cation-adjusted antimicrobials for GN Organisms
Dade Bering, MicroScan Division
\$14,700 (direct \$12,049)
Principal Investigator, **PC Iwen**
- 2001-03 Comparison of Hand Bioburden in Response of Various Hand Hygiene
Practices
UNMC Clinical Research Center
\$4,000 (direct \$4,000)
Co-Investigator, **PC Iwen** and M Rupp
- 2001-02 C.A.N.C.E.R. Surveillance Program
The Jones Group, Inc.
\$12,000 (direct \$12,000)
Principal Investigator, **PC Iwen**

- 2000-03 Phase III, Randomized, Evaluation Committee-Blinded study to Assess the Safety and Efficacy of Topical Administration of MBI 226 1.0% gel versus Standard Medical Care in Patients Undergoing Non-Cuffed, Short-Term Arterial and/or Central Venous Catheterization
Omnicare Clinical Research
\$300,000 (direct \$300,000)
Co-Investigator, **PC Iwen** and T Thompson
- 2000-01 Faculty Education Support Grant
UNMC College of Medicine
\$1,600 (direct \$1,600)
Principal Investigator, **PC Iwen**
- 2000-01 Application of a new polymerase chain reaction technique for rapid detection and identification of fungal pathogens”
Merck & Co., Inc.
\$66,770 (direct \$53,536)
Principal Investigator, **PC Iwen**
- 2000 Conventional Antibiotic Qualification 8
Dade Behring, MicroScan Division
\$32,500 (direct \$26,639)
Principal Investigator, **PC Iwen**
- 1999-2001 Influenzae Surveillance Program
R.W. Johnson Pharmaceutical Research Institute, Inc.
\$3,500 (direct \$2,700)
Principal Investigator, **PC Iwen**
- 1999 Historic Control Study of the Efficacy of Standard Therapy in Acute Aspergillosis to Allow Comparison with the Efficacy of Voriconazole
Pfizer Corporation
\$3,700 (direct \$3,700)
Co-Investigator, **PC Iwen** and J Vose
- 1999-2000 Outcomes Experience of Patients with Invasive Aspergillosis Treated with Amphotericin B, Lipid Formulations of AMB and/or itraconazole
Merck & Co., Inc
\$24,000 (direct \$24,000)
Co-Investigator, **PC Iwen** and D Dominguez
- 1999-2000 North American Zyvox (linazolid) Antimicrobial Potency Study
Clinical Pharmacokinetics Laboratory
\$2,250 (direct \$1,800)
Principal Investigator, **PC Iwen**

- 1999 Moxifloxacin Regional and National in Vitro Susceptibility of
Common Respiratory Tract Pathogens
Bayer Corporation
\$6,375 (direct \$4,781)
Principal Investigator, **PC Iwen**
- 1999 Improving the Diagnosis of Invasive Aspergillosis in Immunocompromised
Patients
The Liposomal Company
\$5,000 (direct \$5,000)
Principal Investigator, **PC Iwen**
- 1998-99 Impact of *Lactobacillus caseii* GG on the GI Function in Short Bowel
Syndrome
ConAgra, Inc.
\$2,000 (direct \$2,000)
Co-Investigator, **PC Iwen** and A Sondheimer
- 1998-2000 A Comparison of the Arrowg+ and III Antimicrobial Surface Treated, Triple-
Lumen, Central Venous Catheters vs Standard-Triple Lumen Catheters in a
Randomized, Double-Blinded Trial
Arrow International, Inc.
\$150,000 (direct \$150,000)
Co-Investigator, **PC Iwen** and M Rupp
- 1998-99 Faculty education support grant
UNMC College of Medicine
\$1,000 (direct \$1,000)
Principal Investigator, **PC Iwen**
- 1998 Enterohemorrhagic *E. coli* Prevalence Study
NE DHSS
\$7,000 (direct \$7,000)
Co-Investigator, **PC Iwen** and P Fey
- 1998-99 Universal Swab Equivalency Study
GenProbe, Inc.
\$12,214 (direct \$9,771)
Principal Investigator, **PC Iwen**
- 1997-98 Enteric Decontamination with Bacitracin and Bismuth Subsalicylate in
Patients Colonized with VRE”
UNMC Seed Research Grant
\$7,500 (direct \$7,500)
Co-Investigator, **PC Iwen** and M Rupp
- 1997 Dried Overnight Gram-Positive Identification Clinical Trial
Dade MicroScan International

- \$5,000 (direct \$4,000)
Principal Investigator, **PC Iwen**
- 1996-97 Study of Contamination in Non-Vented Closed Enteral Feeding Systems
Clintec Technologies, Inc.
\$15,000 (direct \$15,000)
Co-Investigator, **PC Iwen** and M Rupp
- 1996 National Broad Spectrum Beta-Lactamase Surveillance Trial University of
Iowa Hospitals and Clinic.
\$1,500 (direct \$1,500)
Co-Investigator, **PC Iwen** and R. Jones
- 1993-94 Evaluation of the PACE 2C to Detect *C. trachomatis* and *N. gonorrhoeae*
Gen-Probe, Inc.
\$34,000 (direct \$27,869)
Principal Investigator, **PC Iwen**

STUDY SECTIONS:

- 2011 UNMC Cell Biology II Graduate Fellowship Review Section
Graduate College, UNMC

PATENTS:

- 03/29/05 Patent No. US 6, 872,523 B1 (awarded)
(Materials and Methods for Molecular detection of
Clinically Relevant, Pathogenic Fungal species)

OTHER APPOINTMENTS/POSITIONS:

Nonacademic appointments

- 2013-present Director
Nebraska Public Health Laboratory
- 2002-present Responsible Official, UNMC Select Agent Program
Univ. NE Medical Center
- 2002-present Biosafety Officer
Univ. NE Med. Ctr./ Univ. NE at Omaha/The NE Med Ctr.
- 1997-present Special Microbiology Projects Coordinator,
The Nebraska Medical Center, Clinical Microbiology Laboratory
- 1997-2013 Associate Director,
Nebraska Public Health Laboratory
- 1994-97 Clinical Projects Coordinator,
University Hospital, Clinical Microbiology Laboratory
- 1986-93 Supervisor, Pathology and Microbiology
University of Nebraska Medical Center
- 1983-86 Technical Supervisor, Medical Microbiology
University of Nebraska Medical Center
- 1980-83 Laboratory Technologist, Medical Microbiology

1978-80 University of Nebraska Medical Center
Laboratory Technician, Medical Microbiology
University of Nebraska Medical Center

Part-time positions

1982-96 Technologist, Clinical Microbiology Laboratory,
University Hospital, Omaha
1980-82 Laboratory Technologist, Animal Vaccine Laboratories,
Council Bluffs, IA

CONSULTING POSITIONS:

Academic

1992-present Midwest Student Medical Research Forum,
Abstract Judge, American Medical Association
1991-2010 Student Research Forum,
Abstract Judge, UNMC Center for Continuing Education

Government

1981-97 Consultant
University Hospital's Clinical Microbiology Laboratory

Industry

2003-06 Schering-Plough Animal Health, Omaha, NE
2001-06 ConAgra, Inc., Omaha, NE
2001-03 Transgenomic, Inc., Omaha, NE
1983-86 Porci-Tec Labs, Inc., Avoca, IA
1982-86 Modern Veterinary Products, Inc., Ralston, NE

Ad hoc Editorial Reviewer

2005-present *Postgraduate Medical Journal*
2000-present *Medical Mycology*
2000-present *Journal of Clinical Microbiology*
1997-present *Diagnostic Microbiology and Infectious Disease*
1994-present *Clinical Infectious Diseases*
1994-present *Infection Control and Hospital Epidemiology*

Editorial Review Board

2008-present *Journal of Clinical Microbiology*
2004-present *Applied Biosafety*

MILITARY SERVICE:

None No obligation

HONORS AND AWARDS:

Local

2015 Resolution Honoring NE Ebola Team
University of Nebraska Board of Regents
2014 2014 Midlanders of the Year
Omaha World Herald (recognizing Ebola Fighters)
2011 Distinguish Service Award

2008 Nebraska Infection Control Network
Admiral, Great Navy of the State of Nebraska
Governor Dave Heineman's Office, May 12.

2007 Nominee, Dean's Basic Science Education Excellence Award
UNMC College of Medicine

2007 Nominee, Basic Science Outstanding Teacher Award for 2006
UNMC Class of 1962

2006 Outstanding Teacher Award
Faculty Senate, University of Nebraska Medical Center

2003 Young Investigator Award, Focus on Fungal Infections 13
Merck and Company, Maui, HA

1987 Nominee for Outstanding Service to Allied Health Profession,
First year Physician Assistant Students

National

1998 Travel Award to ASM General Meeting,
Dade MicroScan, Inc., West Sacramento, CA.

1997 Scherago-Rubin Award,
American Society for Microbiology, Washington, D.C.

1995 Travel Award to ASM General Meeting,
Dade MicroScan Inc., West Sacramento, CA.

1994 Travel Award to ASM General Meeting,
Gen Probe Inc, San Diego, CA.

1991 Certificate of Merit for Excellence in Teaching,
American Medical Student Association

1990 Travel Award to ASM Annual Meeting,
DIFCO Laboratories, Ann Arbor, Mich.

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES:

2002-present Full member, American Biological Safety Association

2001-present Associate member, Association of Public Health Laboratories

1985-present Full member, American Society for Microbiology

1985-present Associate member, American Society for Clinical Pathologists

COMMITTEE ASSIGNMENTS:

Departmental

2006 to present Resident Education Committee
Pathology and Microbiology, UNMC, Omaha

National

2008-present National Leadership Advisory Committee
Association of Public Health Laboratories, Washington, DC.

2012 Ad hoc CPEP Committee to Review Operational Procedures
American College of Microbiology, Washington, DC.

1999-12 Infertility Prevention Project Committee, Region VII
Centers for Disease Control, Atlanta, Georgia

2008-10	Infectious Diseases Committee Association of Public Health Laboratories, Washington, DC.
2009-10	Biosafety Competencies Development Committee Association of Public Health Laboratories, Washington, DC.
2008	Member of the Mycology Scientific Advisory Committee American Type Culture Collection, Manassas, Virginia
2001-06	Policy and Planning Committee Association of Public Health Laboratories, Washington, DC.

UNMC

2013 to present	UNMC Incident Command System Biosafety Team
2008 to present	UNMC Safety Leadership Team Biosafety
2001 to present	UNMC Institutional Biosafety Committee Committee Vice Chair
2001-08	UNMC Safety Committee Team member

NM

2008 to present	Biocontainment Unit Safety Advisory Committee Nebraska Medicine, Omaha Committee Chair
1986 to present	Infection Control Committee Nebraska Medical, Omaha
2011 to present	Consultant, Biological Exposure Algorithms Nebraska Medicine Employee Health, Omaha

COMMUNITY SERVICE:

Local organizations

1998-present	Multiple activities Lutheran Church of the Master, Omaha
1999-06	Multiple activities BSA Troop 552, Omaha

Local radio and television (since 2003)

November 17, 2014	WOWT-Ch6, "How dirty is our money"
February 6, 2014	Fox42, "Stay Germ Free when Using Public Items"
May 15, 2013	WOWT-Ch6, "Is Your Mascara Safe?"
April 26, 2013	WOWT-Ch6, "UNMC's Public Health Lab"
February 3, 2013	WOWT-Ch6, "Why You May Want to Disinfect Your Cell Phone"
February 2, 2013	WOWT-Ch6, "Wash Your Hands! Handing Off Germs"
October 17, 2012	KFAB-1110, "Fungal Meningitis and Listeriosis Contamination"
November 23, 2011	WOWT-Ch6, "What's Living on Items Our Children Touch?"
November 25, 2009	WOWT-Ch6, "Germ Worries Heads into Black Friday"
October 5, 7, 8, 2009	NET-Ch12, "Flu Facts" (panel participation)
March 9, 2009	KPTM-Ch42, "Hand Sanitizers: A False Sense of Security"

March 2, 2009	KPTM-Ch42, “ <i>Salmonella</i> Saintpaul Outbreak in Douglas County”
April 20, 2008	KETV-Ch7, “Iraq soldiers and HDR <i>Acinetobacter baumannii</i> ”
April 7, 2008	KETV-Ch7, “Lab Acts as TB Clearinghouse for Nebraska”
February 19, 2008	KMTV-Ch3, “Kitchen Swabs”
March 29, 2006	KETV-Ch7, “What’s in Your Water Bottle?”
March 28, 2006	KFAB-1110, “Dirty Water Bottles”
April 14, 2005	KETV-Ch7, “Government Asking Labs to Destroy Flu Samples”
April 13, 2005	KMTV-Ch3, “Strain of a Deadly Flu Virus Sent to Labs”
March 24, 2005	KETV-Ch7, “Microorganism Gets Local Name”
June 25, 2003	KMTV-Ch3, “Tularemia Strikes 3 in Nebraska”
June 25, 2003	KPTM-Ch42, “Internal Grant to Study Tularensis”
May 5, 2003	WOWT- Ch6, “Cleanliness of Play Areas”
March 6, 2003	KPTM-Ch42, “Bioterrorism Risk of the Disease Rabbit Fever”

National activities

January 2014	Woman’s Health Magazine, “Water bottle storage”
July 13, 2013	Lifescrypt Healthy Living for Women, “How to have a Healthy Summer”
May 2011	Prevention Magazine, “Handling reuseable water bottles”
July 1, 2007	Bottom Line Personnel (magazine), “Did you know that....plastic bottles can be reused safely?” Vol 28, No 13.
August 2006	24 Hour Men’s Fitness (magazine)
March 13, 2006	John Tesh Radio Show (radio), “Safe Use of Water Bottles”
February 2004	Cosmopolitan (magazine), “20 Freaky Facts You Must Know About Germs (cover story)”, pg 241-243.

PUBLICATIONS:

Articles published in scholarly journals

1. **Iwen, PC**, NG Miller, and HW McFadden, Jr. 1984. Treatment of murine pulmonary cryptococcosis with ketoconazole and amphotericin B. *J. Infect. Dis.*, 149:650, Cited in PubMed: PMID-6327840.
2. **Iwen, PC** and NG Miller. 1986. Enhancement of ketoconazole across the blood-brain barrier of mice by dimethyl-sulfoxide. *Antimicrob. Agents Chemother.*, 30:617-8, Cited in PubMed: PMID-3789696.
3. **Iwen, PC**, SJ Booth, and GL Woods. 1989. Comparison of media for screening of diarrheic stools for the recovery of *Clostridium difficile*. *J. Clin. Microbiol.*, 27:2105-6 Cited in PubMed: PMID-2778074.
4. Records, RE and **PC Iwen**. 1989. Experimental bacterial endophthalmitis following extracapsular lens extraction. *Exp. Eye Res.*, 49:729-37, Cited in PubMed: PMID-2591490.
5. Woods, GL and **PC Iwen**. 1990. Comparison of a dot immunobinding assay, latex agglutination, and cytotoxin assay for laboratory diagnosis of *Clostridium difficile*-associated diarrhea. *J. Clin. Microbiol.*, 28:855-7, Cited in PubMed: PMID-2112561.
6. Tritz, DM, **PC Iwen**, and GL Woods. 1990. Evaluation of MicroScan™ for identification of *Enterococcus* species. *J. Clin. Microbiol.*, 28:1477-8, Cited in PubMed: PMID-2116449.
7. **Iwen, PC**, TM Blair, and GL Woods. 1991. Comparison of the Gen-Probe PACE 2 System, direct fluorescent-antibody and cell culture for detecting *Chlamydia trachomatis* in cervical specimens. *Am. J. Clin. Pathol.*, 95:578-82, Cited in PubMed: PMID-2014785.

8. Sahm, DF, S Boonlayangoor, **PC Iwen**, JL Baade, and GL Woods. 1991. Factors influencing determination of high-level amino glycoside resistance in *Enterococcus faecalis*. J. Clin. Microbiol., 29:1934-9, Cited in PubMed: PMID-1774318 .
9. **Iwen, PC**, EC Reed, JO. Armitage, PJ Bierman, A Kessinger, JM Vose, MA. Arneson, BA. Winfield, and GL Woods. 1993. Nosocomial invasive aspergillosis in lymphoma patients treated with bone marrow or peripheral stem cell transplants. Infect. Control Hosp. Epidemiol., 14:131-9, Cited in PubMed: PMID-8478525.
10. **Iwen, PC**. 1993. Nosocomial aspergillosis in lymphoma patients (letter reply). Infect. Control Hosp. Epidemiol., 14:509.
11. **Iwen, PC**, JC Davis, EC Reed, BA Winfield, and SH Hinrichs. 1994. Airborne fungal spore monitoring in a protective environment during hospital construction and correlation with an outbreak of invasive aspergillosis. Infect. Control Hosp. Epidemiol., 15:303-6, Cited in PubMed: PMID-8077640.
12. **Iwen, PC**, DM Kelly, EC Reed, and SH Hinrichs. 1995. Invasive infection due to *Candida krusei* in immunocompromised patients not treated with fluconazole. Clin. Infect. Dis. 20:342-7, Cited in PubMed: PMID-7742440.
13. **Iwen, PC**, RA Walker, KL Warren, DM Kelly, SH Hinrichs, and J Linder. 1995. Evaluation of a nucleic acid-based test for simultaneously detecting *Chlamydia trachomatis* and *Neisseria gonorrhoeae* in endocervical specimen. J. Clin. Microbiol., 33:2587-91, Cited in PubMed: PMID-8567887.
14. **Iwen, PC**, DM Kelly, J Linder, and SH Hinrichs. 1996. Revised approach for identification and detection of ampicillin and vancomycin resistance in *Enterococcus* species by using MicroScan panels. J. Clin. Microbiol., 34:1779-83, Cited in PubMed: PMID-8784589.
15. **Iwen, PC**, RA Walker, KL Warren, DM Kelly, J Linder, and SH Hinrichs. 1996. Effect of off-site transportation on detection of *Neisseria gonorrhoeae* in endocervical specimens. Arch. Pathol. Lab Med., 120:1019-22, Cited in PubMed: PMID-12049102.
16. **Iwen, PC**, EA Dominguez, DM Kelly, J Linder, KD Patil, ME Rupp, and SH Hinrichs. 1997. Change in prevalence and antibiotic resistance in *Enterococcus* species isolated from blood cultures over an eight year period. Antimicrob. Agents Chemother., 41:494-5, Cited in PubMed: PMID-9021217.
17. **Iwen, PC**, ME Rupp, and SH Hinrichs. 1997. Invasive mold sinusitis: 17 cases in immunocompromised patients and review of the literature. Clin. Infect. Dis., 24: 1178-84 (review), Cited in PubMed: PMID-9195079.
18. Tarantolo, SR, JD Landmark, **PC Iwen**, A Kessinger, WC Chan, and SH Hinrichs. 1997. *Bartonella*-like erythrocyte inclusions in thrombotic thrombocytopenia purpura. Lancet, 350:1602, Cited in PubMed: PMID-9393349.
19. Smith, TL, **PC Iwen**, SB Olson, and ME Rupp. 1998. Environmental contamination with vancomycin-resistant enterococci in an outpatient setting. Infect. Control Hosp. Epidemiol., 19:515-8, Cited in PubMed: PMID-9702578.
20. **Iwen, PC**, ME Rupp, AN Langnas, EC Reed, and SH Hinrichs. 1998. Invasive pulmonary aspergillosis due to *Aspergillus terreus*: 12-year experience and review of the literature. Clin. Infect. Dis. 26:1092-7 (review), Cited in PubMed: PMID-9597234.
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- 135.** Bean, E, S Gibbs, A Hewlett, S Nuss, **P Iwen**, and P Smith. 2014. Variations in infection control practice among registered nurses: investigating best practices. American Public Health Association Annual Meeting, New Orleans, LA, Abstract No.
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PRESENTATIONS:

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- 2. Iwen, P.C.** and N.G. Miller. Enhancement of ketoconazole across the blood-brain barrier of mice by dimethyl-sulfoxide. 86th Annual Meeting of the American Society for Microbiology, *Washington, D.C.* March 24, 1986
- 3. Iwen, P.C.,** S.J. Booth, and G.L. Woods. Screening of diarrhetic stools for the recovery of *Clostridium difficile*: A media comparison. 89th Annual Meeting of the American Society for Microbiology. *New Orleans, LA*. May 17, 1989
- 4. Iwen, P.C.** D.M. Kelly, and G.L. Woods. Comparison of MicroScanTM and agar dilution for detection of high-level amino glycoside resistance among enterococci. 90th Annual Meeting of the American Society for Microbiology, *Anaheim, CA*. May 15, 1990.
- 5. Iwen, P.C.,** J.M. Saunders, and G.L. Woods. Clinical evaluation of a dot immuno-binding assay for laboratory diagnosis of *Clostridium difficile*-associated disease. 90th Annual Meeting of the American Society for Microbiology, *Anaheim, CA*. May 16, 1990
- 6. Iwen, P.C.** Risks and precautions of HIV infections and the health-care worker. Annual Meeting of the Iowa Organization for the Advancement of Associate Degree Nursing, *Des Moines, IA*. October 17, 1990.
- 7. Iwen, P.C.,** M.A. Arneson, E.C. Reed, B.A. Winfield, and G.L. Woods. Nosocomial aspergillosis in lymphoma patients treated with bone marrow or peripheral stem cell transplants. 91st General Meeting of the American Society for Microbiology, *Dallas, TX*. May 9, 1991.
- 8. Iwen, P.C.,** J.C. Davis, and B.A. Winfield. An assessment of air quality monitoring following failure of a protective environment to prevent invasive aspergillosis (IA) in neutropenic patients during major construction. 92nd General Meeting of the American Society for Microbiology, *New Orleans, LA*. May 27, 1992.

9. **Iwen, P.C.**, S.H. Hinrichs, D.M. Kelly, and E.C. Reed. *Candida krusei* causing invasive candidiasis in compromised patients not treated with fluconazole. 93rd General Meeting of the American Society for Microbiology, *Atlanta, GA*. May 19, 1993.
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12. **Iwen, P.C.**, R.A. Walker, K.L. Warren, D.M. Kelly, S.H. Hinrichs, and J. Linder. Comparison of nucleic-acid probe testing with off-site testing for detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* from endocervical specimens. ASCP/CAP 1994 Fall National Meeting, *Washington, D.C.* October 24-26, 1994.
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18. **Iwen, P.C.**, M.E. Rupp, P.Schreckenberger, and S.H. Hinrichs. Evaluation of the revised MicroScan dried overnight gram-positive identification panel to identify *Enterococcus* species. 98th General Meeting of the American Society for Microbiology, *Atlanta, GA*, May 19, 1998.
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23. **Iwen, P.C.** The role of molecular mycology in clinical medicine. Focus on Fungal Infections 12, *Phoenix, AZ*, March 21, 2002.
24. **Iwen, P.C.**, A.G. Freifeld, T.A. Bruening, and S.H. Hinrichs. Evaluation of the ESP blood culture system with a panfungal PCR assay for the detection of fungal pathogens in human blood. 102nd General Meeting of the American Society for Microbiology, *Salt Lake City, UT* May 21, 2002.
25. **Iwen, P.C.**, A.G. Freifeld, L. Sigler, S.Z. Pavletic, and S.R. Tarantolo. Molecular identification of *Rhizomucor pusillus* as a cause of sinus-orbital zygomycosis in a patient with acute myelogenous leukemia. Focus on Fungal Infections 13, *Maui, Hawaii*, March, 20-21, 2003.
26. **Iwen, P.C.**, R.K. Noel, T.A. Bruening, and S.H. Hinrichs. Identification of yeast using internal transcribed spacer regions and microarray. 103rd General Meeting of the American Society for Microbiology, *Washington, D.C.*, May 19, 2003.
27. **Iwen, P.C.** The importance of microbiology to our practice. 31st Annual Physician Assistant Conference, *New Orleans, LA*, May 24, 2003.
28. **Iwen, P.C.** Invasive mycoses A'la carte. 2004 ASCP-CLMA-NSCLS Spring Regional Meeting, *Omaha, NE*, April 15, 2004.
29. **Iwen, P.C.**, R.K. Noel, S.R. Tarantolo, D.F. El-Hajjar, K.A. Bryant, T. Brown, and S.H. Hinrichs. Regional identification of thermophilic *Campylobacter* species using the 16S rDNA sequence as a molecular target. 104th Meeting of the American Society for Microbiology, *New Orleans, LA*, May 26, 2004.
30. **Iwen, P.C.** Utilization of the internal transcribed spacer regions of the rDNA complex for the identification of fungal pathogens. Institute of Microbiology and Hygiene, Universitätsklinikum Charite-Birchow, Humboldt University, *Berlin, Germany*, June 30, 2004
31. **Iwen, P.C.** P. Fey, S.H. Hinrichs, A. Sambol, and J. Rowland. Understanding the origins of antimicrobial resistance and its potential impact on community health preparedness. 2004. NE Bioterrorism Preparedness Symposia Series, "Prepare NOW for the Next Public Health Emergency", *Norfolk, NE* (March 25), *Gering, NE* (May 5), *Omaha, NE* (June 16), and *Kearney, NE* (August 26).
32. **Iwen, PC**, P Fey, SH Hinrichs, A Sambol, and J Rowland. Molecular techniques for microbiology. 2005. 3rd NE Center for Bioterrorism Preparedness Symposia, *Norfolk, NE* (April 25), *Kearney, NE* (May 25), and *Gering, NE* (June 17).
33. **Iwen, PC** *Francisella tularensis*: a Nebraska perspective. 2006. 4th NE Center for Bioterrorism Preparedness Symposia, *Omaha, NE* (March 7) and *Norfolk, NE* (April 5).
34. **Iwen, PC** Emerging infectious diseases: a microbiologist's perspective. UNMC Summer Medical and Dental Education Program (SMDEP), *Omaha, NE*, June 15, 2006.
35. Noel, RK, ME Rupp, SH Hinrichs, KR Erlandson, and **PC Iwen**. Incidental finding of vancomycin-resistant *Enterococcus* (VRE) species in stool and the subsequent development of systemic VRE infection. 107th General Meeting of the American Society for Microbiology, *Toronto, Canada*, May 23, 2007.
36. **Iwen, PC**, RK Noel, DL Sudan, and AG Freifeld. Molecular identification of *Trichosporon dermatis* as a cause of fungemia in a pediatric patient undergoing a combined liver and small bowel transplant. 3rd Trends in Medical Mycology, *Torino, Italy*, October 30, 2007.
37. Noel, RK and **PC Iwen**. 2008. Demonstration of DNA extraction from yeast culture using a modified sample pretreatment on the Roche MagNA Pure compact instrument. 108th General Meeting of the American Society for Microbiology, *Boston, MA*, June 2, 2008.
38. **Iwen, PC** What's all the fuss about *Clostridium difficile*? 2008. 6th Annual Biopreparedness Symposia Series, *Kearney, NE* (May 8), *Norfolk, NE* (June 5), and *Omaha, NE* (July 10).

39. **Iwen, PC.** Overview of current issues for the molecular identification of fungal pathogens. American Association of Veterinary Laboratory Diagnosticians Molecular Mycology Mini-Symposium, *Greensboro, NC*, October 24, 2008.
40. **Iwen, PC.** Utilization of molecular targets for the identification of invasive fungal pathogens. UNL Microbiology and Molecular Biology Seminar Series, *Lincoln, NE*, December 5, 2008.
41. **Iwen, PC** Foodborne disease surveillance and increased salmonellosis: what in the world is going on? 2009. 7th Annual Biopreparedness Symposia Series, *Norfolk, NE* (June 11, 2009), *Lincoln, NE* (July 9), and *Kearney, NE* (August 28).
42. **Iwen, PC.** Foodborne disease surveillance and increased salmonellosis incidence: what in the world is going on? 2009 Great Plains Regional Laboratory Expo, *Omaha, NE*, May 1, 2009.
43. **Iwen, PC, SW Peterson, DF Florescu, AC Kalil, RD Noel, and L Sigler.** Molecular identification of *Emmericella echinulata* as a cause of cerebral aspergillosis in a patient following small bowel and liver transplantation. 109th General Meeting of the American Society for Microbiology, *Philadelphia, PA*, May 18, 2009.
44. **Iwen, PC.** Utilization of molecular targets for the identification of invasive fungal pathogens. UNO Biology Dept. Seminar Series, *Omaha, NE*, March 5, 2010.
45. **Iwen, PC** Tuberculosis: an update on diagnosis. 2010. 8th Annual Biopreparedness Symposia Series, *Norfolk, NE* (May 13), *Omaha, NE* (June 16), and *Kearney, NE* (August 4).
46. **Iwen, PC.** How to interpret microbiology reports in the long term care facility. NICN/APIIC 2010 Infection Prevention Conference, *Omaha, NE*, August 27, 2010.
47. **Iwen, PC.** Public health responses to emerging infectious diseases. UNMC College of Public Health, Dept. of Epidemiology, *Omaha, NE*, March 1, 2011.
48. **Iwen, PC.** Public health responses to emerging infectious diseases. 2011 Iowa-Nebraska Annual Laboratory Meeting, *LaVista, NE*, April 15, 2011.
49. **Iwen, PC** Histoplasmosis in Nebraska: what is this and why should I be concerned? 2011. 9th Annual Biopreparedness Symposia Series, *Gering, NE* (April 11), *Norfolk, NE* (May 11), and *Lincoln, NE* (June 14).
50. Fisher, RT, BL Wickes, DA Sutton, J. Fu, and **PC Iwen.** Microsatellite DNA polymorphism analysis of confirm fungemia caused by the probiotic *Saccharomyces cerevisiae (boulardii)* in a patient with short bowel syndrome. 111th General Meeting of the American Society for Microbiology, *New Orleans, LA*, May 21, 2011.
51. **Iwen, PC.** Introduction to IRB: Regulatory Issues and Specimen Ownership. National Committee for Public Health Laboratory Leadership Forum Series: Applied Research. *Tampa, FL*. March 20-21, 2012.
52. **Iwen, PC.** Navigating the requirements of the Select Agent Program: A Public Health Laboratories Experience. Midwest Area Biosafety Symposium. *Lincoln, NE*, August 6-8, 2012.
53. **Iwen, PC.** Tuberculosis in Nebraska: An Update. 2012 ASCLS-NE/CLMA/ASCP Spring Meeting. *Omaha, NE*, April 21, 2012.
54. **Iwen, PC.** Epidemics After Natural Disasters and the Role of the Laboratory. 2012. 10th Annual Biopreparedness Symposia Series, *Gering, NE* (April 11), *Norfolk, NE* (May 9), and *Omaha, NE* (June 15)
55. **Iwen, PC.** Overview of the Multistate Outbreak of Fungal Meningitis from Compounding Solution. 2013 Great Plains Regional Laboratory Expo. *Omaha, NE*, April 4, 2013.
56. **Iwen, PC.** The Nebraska Public Health Laboratory: The First 100 Years. 2013. 11th Annual Biopreparedness Symposia Series, *Lincoln, NE* (June 11) and *Kearney, NE* (July 16).
57. **Iwen, PC.** Clinical Microbiology Review. Nebraska Infection Control Network: Infection Prevention Course, *Omaha, NE*, May 14 and October 16, 2014.

58. **Iwen, PC.** Lessons from the Front Line: labs share experiences testing Ebola patients. American Association for Clinical Chemistry, WebEx, November 13, 2014.
59. **Iwen, PC.** Laboratory testing for Ebola virus disease. Centers for Disease Control and Prevention, Training Course for Ebola Treatment Facilities, University of Nebraska Medical Center, Omaha, NE, November 15-16, 2014.
60. **Iwen, PC.** Ebola virus and laboratory testing. Webinar presentation for the Center for Preparedness Education , Joint Between Creighton University School of Medicine and the University of Nebraska Medical Center, Omaha, NE, Date, 12:30pm.
61. **Iwen, PC** and SH Hinrichs. An integrated approach to laboratory testing for Ebola-related specimens. Special Seminar, LSU Health Sciences Center, Department of Pathology, Shreveport, LA, December 2, 2014.
62. **Iwen, PC** and SH Hinrichs. An integrated approach to laboratory testing for Ebola-related specimens. Clinical Grand Rounds, Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, December 3, 2014.
60. **Iwen, PC.** Pediatric Ebola treatment and laboratory testing. Centers for Disease Control and Prevention, Training Course for Pediatric Ebola Treatment Facilities, University of Nebraska Medical Center, Omaha, NE, December 15-16, 2014.
63. **Iwen, PC.** Laboratory testing for Ebola virus disease. Centers for Disease Control and Prevention, Training Course for Ebola Treatment Facilities, University of Nebraska Medical Center, Omaha, NE, January 8-9 and 13-14, 2014.
64. **Iwen, PC.** Emory/Nebraska Content Call for Laboratory Testing of Ebola virus. Centers for Disease Control, Teleconference, January 28, 2015.
65. **Iwen, PC.** Laboratory testing for Ebola virus disease. Visiting Scientists from Singapore, January 30, 2015.
66. **Iwen, PC.** Experiences with the Ebola virus. Millard Lions, Omaha, NE, February 9, 2015.

CONTRIBUTIONS TO PUBLIC COLLECTIONS/ DATABASES:

American Type Culture Collection (ATCC), University of Alberta Microfungus Collection (UAMH), Leibniz Institute DSMZ-German (DSM)

08/98	<i>Aspergillus ustus</i>	ATCC 201953
01/99	<i>Gymnascella hyalinospora</i>	ATCC 204275
01/99	<i>Gymnascella hyalinospora</i>	UAMH 9359
01/99	<i>Cylindrocarpon lichenicola</i>	ATCC 204306
02/00	<i>Candida glabrata</i>	ATCC MYA-296
07/01	<i>Exiguobacterium aurantiacum</i>	ATCC BAA-333
03/03	<i>Rhizomucor pusillus</i>	ATCC MYA-2881
03/03	<i>Rhizomucor pusillus</i>	UAMH 10076
01/04	<i>Mycobacterium nebraskense</i>	ATCC BAA-837
02/04	<i>Mycobacterium nebraskense</i>	DSM 44803
10/06	<i>Mucor circinelloides</i>	ATCC MYA-4072
10/06	<i>Mucor circinelloides</i>	UAMH 10385
08/07	<i>Trichosporon dermatis</i>	ATCC BAA-1532
08/07	<i>Tsukamurella pulmonis</i>	ATCC MYA-4294
05/08	<i>Schizophyllum commune</i>	UAMH 10914
05/08	<i>Scopulariopsis brevicaulis</i>	UAMH 10915
07/08	<i>Actinomucor elegans</i>	UAMH 10931
08/08	<i>Emericella echinulata</i>	UAMH 10948
04/10	<i>Blakeslea trispora</i>	UAMH 11092

11/14 *Mycobacterium talmonii* ATCC BAA-2683
03/15 *Mycobacterium talmonii* DSM 46873

NCBI GenBank sequence databases

02/99 *Gymnascella hyalinospora* AF129853
02/99 *Gymnascella hyalinospora* AF129854
02/99 *Cladophialophora bantiana* AF131079
03/99 *Cylindrocarpon lichenicola* AF133843
05/99 *Aspergillus fumigatus* AF138288
05/99 *Aspergillus terreus* AF138290
05/99 *Aspergillus flavus* AF138287
05/99 *Emmerciella nidulans* AF138289
05/99 *Aspergillus niger* AF138904
05/99 *Aspergillus ustus* AF157507
06/99 *Cryptococcus neoformans* AF162916
06/99 *Ajellomyces capsulatus* AF156892
06/99 *Histoplasma duboisii* AF162917
07/99 *Fusarium oxysporum* AF165875
07/99 *Fusarium moniliforme* AF165873
07/99 *Nectria haematococca* AF165874
07/99 *Candida glabrata* AF167993
07/99 *Cylindrocarpon destructans* AF172261
07/99 *Candida lusitanae* AF172262
08/99 *Pseudallescheria boydii* AF181558
09/99 *Blastoschizomyces capitatus* AF183911
09/99 *Ajellomyces dermatitidis* AF183912
01/00 *Candida albicans* AF217609
01/00 *Lactobacillus rhamnosus* AF217610
03/00 *Malassezia furfur* AF246896
03/00 *Issatchenkia orientalis* AF246989
07/00 *Candida tropicalis* AF287910
07/00 *Candida parapsilosis* AF287909
08/00 *Yersinia enterocolitica* AF293850
08/00 *Bacillus cereus* AF293851
09/00 *Bacillus anthracis* AY008265
05/01 *Sporothrix schenckii* AF364061
09/01 *Exiguobacterium auranticum* AY047481
12/01 *Rhizomucor pusillus* AF461764
12/01 *Pichia jadinii* AF458091
11/03 *Mycobacterium nebraskense* AY368456
11/03 *Mycobacterium nebraskense* AY368457
11/03 *Mycobacterium nebraskense* AY368458
12/03 *Inonotus tropicalis* AY599487
05/04 *Arcobacter butzleri* AY621116
05/04 *Campylobacter coli* AY621115
05/04 *Campylobacter lari* AY621114
05/04 *Campylobacter upsaliensis* AY621113
05/04 *Campylobacter jejuni* subsp. *jejuni* AY621112

05/04	<i>Campylobacter jejuni</i> subsp. <i>doylei</i>	AY621111
05/04	<i>Campylobacter fetus</i> susp. <i>fetus</i>	AY621110
02/05	<i>Pichia heedii</i>	AY900620
11/05	<i>Mycobacterium kubicae</i>	DQ275612
02/05	<i>Inonotus tropicalis</i>	AY598829
02/05	<i>Inonotus tropicalis</i>	AY598828
02/05	<i>Inonotus tropicalis</i>	AY598827
02/05	<i>Inonotus tropicalis</i>	AY598826
02/05	<i>Inonotus tropicalis</i>	AY641432
07/06	<i>Mucor circinelloides</i>	DQ787159
07/06	<i>Mucor circinelloides</i>	DQ837219
07/06	<i>Mucor circinelloides</i>	DQ837220
08/07	<i>Tsukamurella pulmonis</i>	EU086530
08/07	<i>Tsukamurella pulmonis</i>	EU086531
09/07	<i>Trichosporon dermatis</i>	EU090909
09/07	<i>Trichosporon dermatis</i>	EU081842
08/08	<i>Mycobacterium chimaera</i>	FJ026393
09/08	<i>Scopulariopsis brevicaulis</i>	FJ176395
09/08	<i>Actinomucor elegans</i>	FJ176396
09/08	<i>Schizophyllum commune</i>	FJ176397
03/10	<i>Phialosimplex caninus</i>	GQ169329
03/10	<i>Monocillium indicum</i>	GQ169328
03/10	<i>Sagenomella striatispora</i>	GQ169327
03/10	<i>Phialosimplex chlamydosporus</i>	GQ169326
03/10	<i>Sagenomella</i> spp. UAMH9571	GQ169325
03/10	<i>Sagenomella griseoviridis</i>	GQ169324
03/10	<i>Sagenomella humicola</i>	GQ169323
03/10	<i>Sagenomella humicola</i>	GQ169322
03/10	<i>Sagenomella diversispora</i>	GQ169321
03/10	<i>Sagenomella griseoviridis</i>	GQ169320
03/10	<i>Sagenomella diversispora</i>	GQ169319
03/10	<i>Sagenomella diversispora</i>	GQ169318
03/10	<i>Phialosimplex caninus</i>	GQ169317
03/10	<i>Phialosimplex caninus</i>	GQ169316
03/10	<i>Phialosimplex caninus</i>	GQ169315
03/10	<i>Phialosimplex caninus</i>	GQ169314
03/10	<i>Phialosimplex caninus</i>	GQ169313
03/10	<i>Phialosimplex caninus</i>	GQ169312
03/10	<i>Phialosimplex caninus</i>	GQ169311
03/10	<i>Phialosimplex caninus</i>	GQ169310
03/10	<i>Francisella tularensis</i>	CP001633
01/12	<i>Pediococcus acidilactici</i>	JN801158
07/13	<i>Scopulariopsis brevicaulis</i>	FJ176395
12/13	<i>Microascus trigonosporus</i>	KF280265
09/13	<i>Microbacterium binotii</i>	KF534779
04/14	<i>Cellulosimicrobium cellulans</i>	KJ000743
04/14	<i>Cellulosimicrobium cellulans</i>	KJ000744
04/14	<i>Cellulosimicrobium funkei</i>	KJ000746

04/14 *Cellulosimicrobium funkei* KJ000745

TEACHING ACTIVITIES: 2014-15

				Contact hours
Lectures in team-taught courses (UNMC)				
Medical mycology	Medical	M-ID	630	3
Introductory mycology	Pharm D	MM	550	1
Antifungal agents	Pharm D	MM	550	1
Cutaneous mycoses	Pharm D	MM	550	1
True systemic mycoses	Pharm D	MM	550	1
Opportunistic mycoses	Pharm D	MM	550	1
Foundations of Public Health	Graduate/Gibbs	EPI	500	6
Molecular epidemiology	Graduate/Islam	EPI	825	3
Lectures in team-taught courses (Creighton University)				
General Mycology	Graduate	MIC	735	2
Laboratory coordinator and instructor in team-taught courses				
Microbiological techniques	Medical	M-ID	630	4
Introductory mycology	Medical	M-ID	630	3
Diagnostic virology (CAI)	Medical	M-ID	630	2
Diagnostic Parasitology (CAI)	Medical	M-ID	630	3
Blood cultures	Medical	M-ID	630	4
Sexually transmitted diseases (CAI)	Medical	GU core		2
Graduate students				
Supervision of thesis and dissertation research				>150
Elizabeth Beam	PhD student	Supervisory Committee		
Aqilah Alelew	MS student	Supervisor		
Residency/Fellowship training				
Didactic microbiology lectures for pathology residents				8
One-on-one meetings with pathology residents				>25
One-on-one meetings with CPEP Microbiology fellows				>50
Infectious Diseases residency training and mentor on research projects				>25
Pathology Residency Education Committee, Co-Director of microbiology education				5
Clinical Microbiology Fellowship Program (CPEP), Co-Director				>25
University-wide compliance training				
(Coordinated the web-based Biosafety Training program for UNMC and UNO)				>50
Module 1	General Biosafety			
Module 2	Biosafety Level-3 Containment			
Module 3	Select Agents			
Regional workshop participant				
Nebraska Infection Control Network Training Course, General Microbiology, October 2014 and March 2015(sponsored by The NMC, Dr. Phil Smith)				2

Continuing education activities

Participant in local Infectious Disease Weekly Conference	12
Regional consultant for environmental biological monitoring	10
Consultant for the Biocontainment Patient Care Unit at NMC	10
Participant in multiple regional conferences as Public Health Laboratory representative	>50
Editor, Nebraska Public Health Laboratory Newsletter	>25
Total	>400