



THE STATE PUBLIC HEALTH LABORATORY TRAINING EXPERIENCE





Fellowships AT THE *University Hygienic Laboratory*

Welcome to opportunity. That's how we at the University Hygienic Laboratory (UHL) view the EID Fellowships. UHL has participated in the APHL/CDC EID Fellowship program since its inception in 1996. During that time, our facilities in Iowa City and in the Des Moines suburb of Ankeny have provided a platform for clinicians to put their knowledge to work in the field as well as in the laboratory.

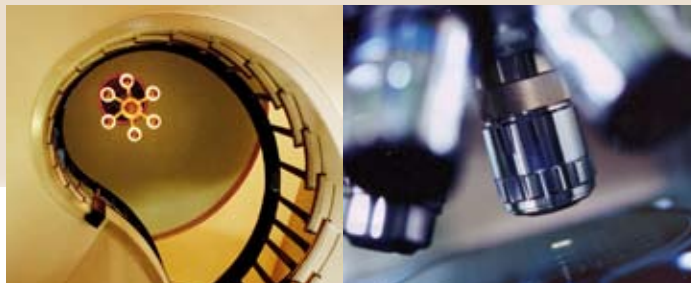
UHL is home to many former fellows who chose to continue to work at UHL in a full-time, professional capacity. We invite your questions and encourage you to contact the mentor assigned to your area of interest highlighted in this brochure. Also, feel free to contact any of our current or previous EID fellows highlighted on the last page.

TAKE THE NEXT STEP IN YOUR CAREER AT THE UHL *where potential meets opportunity.*



"The University Hygienic Laboratory and the EID Fellowship program have a long and successful history. We have benefited from the expertise and enthusiasm for learning that fellows bring to the UHL. I believe the fellows have benefited as well from the knowledge and experience of working with some of the most talented laboratory scientists in the nation."

CHRISTOPHER ATCHISON, DIRECTOR





PANDEMIC INFLUENZA *Preparedness*

The novel H1N1 influenza outbreak is occurring with the potential for reassortment of the influenza genome in hosts. This could result in a more challenging influenza season in 2010. The worldwide outbreak of the H1N1 swine-origin influenza virus underscores our need to carefully track circulating strains of influenza. We propose for an EID fellow to:

- Perform real-time PCR on respiratory specimens for detection and typing of influenza viruses;
- Participate in respiratory illness surveillance activities in Iowa;
- Monitor potential pandemic strains of influenza;
- Enlist additional rapid testing sites in Iowa;
- Provide sentinel laboratories with expert guidance on handling pandemic influenza; and
- Collect, analyze and report the results of rapid testing.



MENTOR: *Sandy Jirsa* (SANDY-JIRSA@UIOWA.EDU) 319-335-4364





HIV Surveillance and Testing

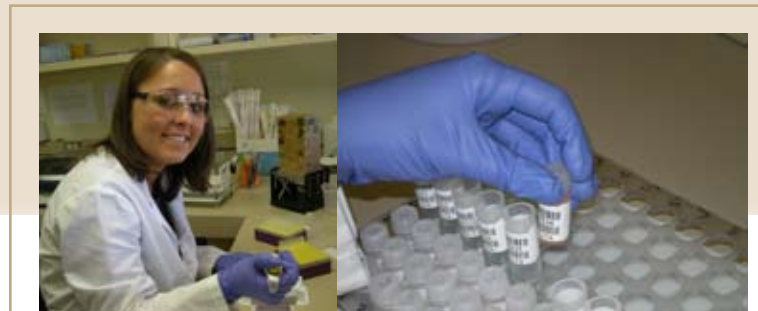
The national testing algorithm for HIV status was developed in the late 1980s. Technological advances since then have created a need to re-evaluate the current testing algorithm.

We propose for an EID fellow to:

- Analyze historical and in-process data to determine the number and percentage of initially reactive immunoassay samples that were not reactive on repeat tests in a public health laboratory setting;
- Determine the number and percentage of initially reactive immunoassay samples that are not reactive on repeat testing;
- Compare and analyze signal-to-cutoff ratio of initially reactive immunoassays and ratios for repeat testing to validate the utility of this additional information for interpretation;
- Submit data to CDC and APHL for consideration in the substantiation process of proposed algorithms with potential to augment and provide alternatives to the algorithms currently used. (APHL HIV Status Report can be found at www.aphl.org/hiv/statusreport); and
- Present data at the 2010 HIV conference.



MENTOR: *Tom Gahan* (THOMAS-GAHAN@UIOWA.EDU) 319-335-4277



Infectious Disease AND *Environmental* SOURCES

Global warming, pollution, bio- and chemical-terrorism threats and an aging water treatment infrastructure are some of the reasons to monitor associations between infectious disease and the health of our environment. We propose for an EID fellow to:

- Participate in various field collection activities, including air and water sampling;
- Develop competency in environmental testing as well as in infectious disease testing;
- Investigate problems associated with exposure to pathogens in the environment, and become familiar with the link between the environment and infectious disease transmission;
- Seek potential areas of collaboration for the environmental and clinical public health laboratories; and
- Work with epidemiologists, toxicologists, environmental health professionals and laboratorians on preparedness issues.



MENTOR: *Michael Wichman*, PH.D. (MICHAEL-WICHMAN@UIOWA.EDU) 319-335-4479





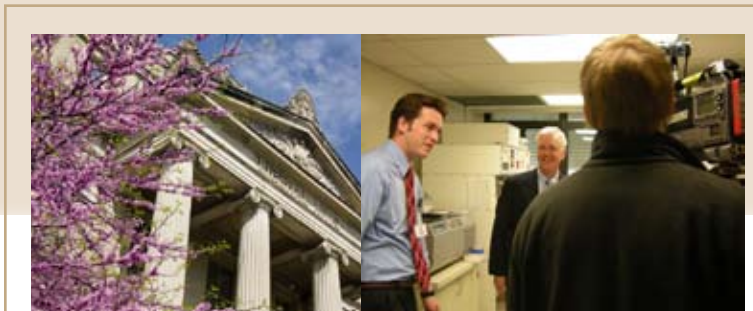
Laboratory ROTATION

Public health labs in the United States are facing shortages of trained personnel to work in – and sometimes manage – laboratory sections. In an effort to train tomorrow's public health leaders, we propose for an EID fellow to:

- Work in several UHL departments including serology, virology, molecular biology and environmental microbiology;
- Work on emergency response training projects, such as coordinating BT drills and tabletop exercises for sentinel laboratories; and
- Assist with education/outreach and public information departments, including K-12 courses, press releases and media relations.



MENTOR: *Michael Pentella* (MICHAEL-PENTELLA@UIOWA.EDU) 319-335-4765





Top 10 REASONS TO COME TO *Iowa*

OTHER *Benefits*

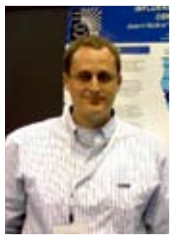
1. Small town feel with big city amenities
2. University affiliation
3. Host to Fellows since EID Fellowship program inception
4. Management / leadership training
5. Low cost of living
6. Ability to take one course per semester at the University of Iowa
7. Great family environment
8. Broad experiences
9. Outbreak investigations
10. Generous stipend augmentation

- Opportunities to work in multiple labs
- Extensive field experience opportunities
- Workshops, meetings, seminars and teleconferences
- Housing assistance
- Connections with academic and government institutions
- Short drive to Chicago, St. Louis, Minneapolis, Kansas City and Omaha
- Opportunity to travel to meetings, seminars and conferences outside professional development allowance





Current FELLOWS



Jeremi Mullins
CLASS XIV EID TRAINING FELLOW
JEREMI-MULLINS@UIOWA.EDU
319-335-4864

“My EID Fellowship experience at UHL has been both challenging and rewarding. The training in molecular testing that I received at UHL was incredibly important in allowing me to contribute during the recent influenza H1N1 outbreak.”



Ryan "Brock" Neil
CLASS XIV POST-DOCTORAL EID
RESEARCH FELLOW
RYAN-NEIL@UIOWA.EDU
319-335-4380

“The EID Fellowship has met and surpassed my expectations. UHL is a great environment in which to learn and perform the work of the public health laboratorian.”

Former FELLOWS



Erin Graf
CLASS XIII EID FELLOW
HOWARD HUGHES MEDICAL INSTITUTE
SCHOLAR AND PH.D. STUDENT
UNIVERSITY OF PENNSYLVANIA



Rebecca Anderson
CLASS XII EID TRAINING FELLOW
LABORATORY ANALYST-GLOBAL AIDS
PROGRAM
INTERNATIONAL LABORATORY BRANCH
CENTERS FOR DISEASE CONTROL AND
PREVENTION



Former FELLOWS

CURRENT *Employees*



Trisha Kreman
CLASS IX EID TRAINING FELLOW
PUBLIC HEALTH MICROBIOLOGIST
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Don Simmons
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Contact UHL FOR MORE *Information*

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712-337-3669



THE NEW HYGIENIC LABORATORY SCHEDULED
TO OPEN IN IOWA CITY IN DECEMBER 2009



UNIVERSITY HYGIENIC LABORATORY

The University of Iowa

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