

## ICL-QUESTIONNAIRE

NAME: Susanne Lindgren, Ph.D.

GRANT PERIOD: March 15-July 15,  
2009

PRESENT POSITION US:

Professor,  
Department of Biological Sciences  
California State University Sacramento, California

BORN: Washington, D.C., USA

LANGUAGES: English

### GERMAN HOST INSTITUTION

Robert Koch Institute, Berlin

### ACADEMIC DISCIPLINE

Biology, Microbiology, Infectious Diseases

### AREAS OF RESEARCH

Bacterial Pathogenesis  
Enterohemorrhagic *E.coli* Prevalence and Pathogenesis;  
Molecular diagnostics  
Pedagogical Techniques in Undergraduate Education

### POSSIBLE LECTURE TOPICS

Prevalence of Enterohemorrhagic *E.coli* in Cattle, Humans, and Ground beef in Northern California using Molecular diagnostic methods

Bacterial diarrheal diseases, the organisms that cause it and their pathogenesis

### ACADEMIC TRAINING AND DEGREES

Post-doctoral research 1993-1997, Oregon Health Sciences University with Fred Heffron. *Salmonella* pathogenesis.

Ph.D. 1993 Uniformed Services University of the Health Sciences, Bethesda, MD with Alison O'Brien. Pathogenesis of diarrheagenic *E.coli*

B.S. Biology, 1986 Muhlenberg College, Allentown, PA

### PREVIOUS POSITIONS

Visiting Professor, Sacramento Public Health Laboratory. Sacramento, CA 2005.  
Director, Molecular Biology Interdisciplinary Group, CSUS 1998-2005.

### PUBLICATIONS (selected)

**Lindgren, S. W.** *Pathogenic Bacteriology: A clinical and investigative approach.* Submitted for publication to the American Society for Microbiology Press.

Hopkins, M, Oliver, J., P. R. Barruel, and **S. W. Lindgren**. Prevalence and Characteristics of Enterohemorrhagic *E.coli* in retail ground beef and range cattle in Sacramento, California. Manuscript in preparation

Van der Velden, A., **S. W. Lindgren**, M. Worley, and F. Heffron. 2000. *Salmonella* pathogenicity island I-Independent induction of apoptosis in infected macrophages by *Salmonella enterica* serotype Typhimurium. *Infection and Immunity*. **68**:5702-5709.

**Lindgren, S. W.** and F. Heffron. 1997. To Sting or be stung: Bacterial induced apoptosis. *Trends Microbiol.* **5**:262-263.

**Lindgren, S. W.**, I. Stojiljkovic, and F. Heffron. 1996. Macrophage killing is an essential virulence mechanism of *Salmonella typhimurium*. *Proc. Natl. Acad. Sci., USA*. **93**:4197-4201.

**Lindgren, S. W.**, J.Samuel, C.Schmitt, and A. D.O'Brien. 1994. The specific activities of Shiga-like toxin type II (SLT-II) and SLT-II-related toxins of Enterohemorrhagic *E.coli* differ when measured by Vero cell cytotoxicity but not by mouse lethality. *Infect. Immun.* **62**:623-631.

**Lindgren, S. W.**, A. R. Melton, and A. D. O'Brien. 1993. Virulence of Enterohemorrhagic *E. coli* O91:H21 isolates in an orally infected mouse model. *Infect. Immun.* **61**:3832-3842.

**REFEREED ABSTRACTS \*undergraduate student researcher \*\*masters student researcher**

\*Williams, G.V., and **S. Lindgren**. 2005. The Effect of Elderberry Juice on the Growth of Common Bacterial Organisms. Annual Biomedical Research Conference for Minority Students, Atlanta, GA. \*National winner, Student Poster/Research Award.

\*\*Morris, M., and **S. Lindgren**. 2004. Development of a Multiplex Polymerase Chain Reaction Assay to identify Enterohemorrhagic *E.coli*, *Salmonella*, *Listeria monocytogenes*, and *Campylobacter pylori*. CSUPERB 16th Annual Biotechnology Symposium, San Jose, CA.

**Lindgren, S.**, R. Ballard, N. Ewing, D. Bell, L. Roberts, K. McReynolds, and M. McCarthy-Hintz. 2003. *Development of a Molecular Biology Interdisciplinary Group at CSU Sacramento*. CSUPERB 15th Annual Biotechnology Symposium.

\*\*Barruel, P., and **S. Lindgren**. 2002. Development of an *slt*-specific Chemiluminescent Detection System for Identification of Enterohemorrhagic *E. coli* in Ground Beef. Abstr. Spring Meet. North.Calif. Am. Soc. Microbiol., (NCASM) Santa Clara, CA. \*First place winner student poster

\*Matthys, J., and **S. Lindgren**. 2002. Viability of Low Levels of Enterohemorrhagic *E. coli* O157:H7 in Ground Meat When Stored at 4°C. Abstr. Spring Meet. North.Calif. Am. Soc. Microbiol., Santa Clara, CA.

\*Jobes, J. \*T. Spaulding, \*J. Freedle, and **S. W. Lindgren**. 2001. Viability of Enterohemorrhagic *E.coli* in consumable meat. Abstr. Spring Meet. North.Calif. Am. Soc. Microbiol., Oakland, CA. \*First place winner, student poster award

\*\*Oliver, J., \*C. Traylor, and **S. Lindgren**. 2000. Detection of Enterohemorrhagic *E.coli* in retail groundbeef in the Sacramento area. Abstr. 100th Annu. Meet. Am. Soc. Microbiol., and NCASM meeting.\* First Place winner, student poster award at NCASM meeting.

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