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## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors.  
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NAME Lawhon, Sara Dyann	POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Texas A&M University, College Station, TX	B.S.	1991	Biomedical Science
Texas A&M University, College Station, TX	B.S.	1993	Veterinary Science
Texas A&M University, College Station, TX	D.V.M.	1997	Veterinary Medicine
Texas Board of Veterinary Medical Examiners			License #8152
North Carolina State University, Raleigh, NC	Ph.D.	2003	Comparative Biomedical Science

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

### EMPLOYMENT:

10/1984-01/1991 Veterinary Assistant, South Lamar Animal Hospital, Austin, Texas.  
12/1991-08/1993 Research Assistant, Auburn University Department of Fisheries and Allied Aquacultures  
02/1994-02/1995 Student Technician, Clinical Pathology Section, Texas Veterinary Diagnostic Laboratory  
05/1994-08/1994 Merck-Meriel Summer Research Training Grant Recipient, Texas A&M University College of Veterinary Medicine  
09/1994-05/1995 Research Assistant with Dr. Paul Frelier, Texas A&M University College of Veterinary Medicine  
05/1995-08/1995 Merck-Meriel Summer Research Training Grant Recipient, Texas A&M University College of Veterinary Medicine  
09/1995-04/1997 Research Assistant with Dr. Paul Frelier, Texas A&M University College of Veterinary Medicine  
09/1996-10/1996 Externship, Mount Sinai Hospital, Toronto, Ontario Dr. Donald E. Low, Department of Microbiology Head  
04/1997-07/1998 Assistant Research Scientist, Texas A&M University College of Veterinary Medicine  
07/1998-06/2001 Comparative Infectious Disease Resident, North Carolina State University College of Veterinary Medicine  
12/2002-12/2007 Post Doctoral Research Associate, Texas A&M University College of Veterinary Medicine & Biomedical Sciences  
01/2008-Present Assistant Professor, Texas A&M University College of Veterinary Medicine & Biomedical Sciences

### HONORS:

1997 Recipient, World Animal Care Foundation Award  
Received NIH Mentored Clinical Scientist Development Award (K08)

### PROFESSIONAL SOCIETIES:

05/2001-present American Society for Microbiology  
06/1997-present American Veterinary Medical Association  
03/2008-present American Association of Veterinary Laboratory Diagnosticians

### PEER-REVIEWED RESEARCH PUBLICATIONS:

1) Raffatellu, M., Santos, R.L., Chessa, D., Wilson, R.P., Winter, S.E., Rossetti, C.A., **Lawhon, S.D.**, Chu, H., Lau, T., Bevins, C.L., Adams, L.G., and Bäuml, A.J. (2007) The capsule encoding the *viaB* locus reduces interleukin-17 expression and mucosal innate responses in the bovine intestinal mucosa during infection with *Salmonella enterica* serotype Typhi. *Infection and Immunity* 75(9):4342-4350.

- 2) Raffatellu, M., Sun, Y.H., Wilson, R.P., Tran, Q.T., Chessa, D., Andrews-Polymenis, H., **Lawhon, S.D.**, Figueiredo, J.F., Tsolis, R.M., Adams, L.G. and Bäumlér, A.J. (2005). Host restriction of *Salmonella enterica* serotype Typhi is not caused by functional alteration of SipA, SopB, or SopD. *Infection and Immunity* 73(12): 7817-7826.
- 3) Raffatellu, M., Wilson, R.P., Chessa, D., Andrews-Polymenis, H., Tran, Q.T., **Lawhon, S.**, Khare, S., Adams, L.G. and Bäumlér, A.J. (2005) SipA, SopA, SopB, SopD and SopE2 contribute to *Salmonella enterica* serotype Typhimurium invasion of epithelial cells. *Infection and Immunity* 73(1): 146-154.
- 4) **Lawhon, S.D.**, Frye, J.G., Suyemoto, M. M., Porwollik, S., McClelland, M., and Altier, C. (2003) Global regulation by CsrA in *Salmonella typhimurium*. *Molecular Microbiology* 48(6): 1633-1645.6)
- 5) **Lawhon, S.D.**, Maurer, R., Suyemoto, M., and Altier, C. (2002) Intestinal short-chain fatty acids alter *Salmonella typhimurium* invasion gene expression and virulence through BarA/SirA. *Molecular Microbiology* 46(5):1451-1464
- 6) Altier, C., Suyemoto M., and **Lawhon S.D.** (2000) Regulation of *Salmonella enterica* serovar Typhimurium invasion genes by csrA. *Infection and Immunity* 68(12):6790-6797.
- 7) Eldar, A., **Lawhon, S.**, Frelier, P. F., Assenta, L., Simpson, B. R., Varner, P. W., and Bercovier, H. (1997) Restriction fragment length polymorphisms of 16S rDNA and of whole rRNA genes (ribotyping) of *Streptococcus iniae* strains from the United States and Israel. *FEMS Microbiology Letters*, 151: 155-162.
- 8) Eldar, A., Frelier, P. F., Assenta, L., Varner, P. W., **Lawhon, S.**, and Bercovier, H. (1995) *Streptococcus shiloi*, the name for an agent causing septicemic infection in fish, is a junior synonym of *Streptococcus iniae*. *International Journal of Systematic Bacteriology*, 45(4):840-842.

## RESEARCH SUPPORT

ACTIVE

K08 AI60933-01 (Lawhon)

7/1/04-3/31/08

DHHS/PHS/NIH NIAID

Impact of Ileal Content on S. Typhimurium Pathogenesis

The major goals of this project are to evaluate the role of factors present in the intestinal tract that affect S. typhimurium gene expression and to identify molecular mechanisms by which conditions of the intestinal lumen and epithelium alter the virulence and persistence of S. typhimurium in the calf model of enterocolitis.