

## Curriculum Vitae

**Robin R. Chamberland**  
**Department of Pathology**  
**Saint Louis University School of Medicine**  
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### Education

University of North Carolina School of Medicine Ph.D., Department of Microbiology and Immunology	2002-2008
University of North Carolina at Chapel Hill B.S., Biology	2000-2002
Coffeyville Community College A.A.S., Medical Laboratory Technician Program	1985-1987

### Research and Professional Experience

Saint Louis University School of Medicine Assistant Professor, Department of Pathology Director, Microbiology Laboratory Saint Louis University Hospital	July 2011-present
Saint Louis University School of Medicine Medical Director of Molecular Microbiology Saint Louis University Molecular Diagnostics Laboratory	November 2013 -present
Washington University School of Medicine Clinical Microbiology Fellow, Department of Pathology and Immunology Dr. W. Michael Dunne, advisor Training in all aspects of clinical microbiology	2009-2011
University of North Carolina School of Medicine Postdoctoral Fellow, Department of Medicine Dr. J. Alex Duncan, research advisor Investigated the role of bacterial toxins in lung inflammation and necrosis	2008-2009
University of North Carolina School of Medicine Graduate Research Assistant, Department of Microbiology and Immunology Dr. Thomas H. Kawula, dissertation research advisor	2002-2008

Characterized interaction of *Francisella tularensis* with lung epithelial cells

- University of North Carolina at Chapel Hill 2000-2002  
Undergraduate Research, Department of Biology  
Dr. Jonathan Serody, research mentor  
Evaluated effectiveness of peptide pulsed dendritic cells for treatment of tumors in mice
- State of North Carolina Department of Agriculture 1998-2000  
Rollins Animal Disease Diagnostic Laboratory  
Medical Technologist I  
Identified and performed antimicrobial susceptibility testing of animal pathogens
- Coffeyville Regional Medical Center, Coffeyville, Kansas 1991-1998  
Medical Laboratory Technician  
Performed diagnostic testing on patient samples in multiple clinical laboratory departments
- SmithKline Beecham Clinical Laboratories, Kansas City, Missouri 1989-1991  
Medical Laboratory Technician  
Provided client services support and operated satellite STAT laboratory
- Swope Parkway Health Center, Kansas City, Missouri 1987-1989  
Medical Laboratory Technician  
Performed diagnostic testing in a large clinic

**Publications**

Shakir I.A., N.H. Patel, R.R. Chamberland, and S.G. Kaar. 2015. Investigation of cell phones as a potential source of bacterial contamination in the operating room. J Bone Joint Surg Am. Feb 4;97(3):225-31.

Chamberland, R.R., C.D. Burnham, G.A. Storch, R. Jackups, and C.D. Doern. 2014. Prevalence and Seasonal Distribution of Norovirus Detection in Stools Submitted From Pediatric Patients for Enteric Pathogen Testing. Journal of the Ped Inf Dis Society. 3(3).

Chamberland, R.R. and L. F. Westblade, 2014. Molecular Medical Microbiology, 2<sup>nd</sup> edition, Edited by Max Sussman, Chapter 27, Survival Strategies of Extracellular Bacterial Pathogens in the Human Body.

Chamberland R.R., E. McElvania TeKippe, C.A. Burnham, D.J. Kennedy. 2013. Renal abscess caused by a *Providencia stuartii* isolate biochemically misidentified as *Pasteurella*. *Journal of Clinical Microbiology*. 51(8):2775-7.

Westblade, L., R.R. Chamberland, D. MacCannell, R. Collins, E. Dubberke, W. Dunne, and C. Burnham. 2013. Development and Evaluation of a Novel, Semi-Automated *Clostridium difficile* Typing Platform. *Journal of Clinical Microbiology*. 51(2):621-4.

Kebaier, C., R.R. Chamberland, I.C. Allen, X. Gao, P.M. Broglie, J.D. Hall, C. Jania, C.M. Doerschuk, S.L. Tilley, and J.A. Duncan. 2012. *Staphylococcus aureus*  $\alpha$ -Hemolysin Mediates Virulence in a Murine Model of Severe Pneumonia Through Activation of the NLRP3 Inflammasome. *Journal of Infectious Diseases*. 205(5):807-17.

Craven, R.R., L.R. Hamilton, C.O. Deetz, and W.M. Dunne Jr. 2011. Postmortem Analysis and the Role of the Clinical Microbiology Laboratory. *Academic Forensic Pathology* 2011 1 (1): 32-38.

Burnham, C.-A. D., R.R. Craven, and W. Michael Dunne. 2011. Laboratory Detection of Vancomycin Nonsusceptible *Staphylococcus aureus*. *Current Protocols in Microbiology* 22:17.6.1–17.6.5.

Huang, M.T., B.L. Mortensen, D.J. Taxman, R.R. Craven, S. Taft-Benz, T.M. Kijek, J.R. Fuller, B.K. Davis, I.C. Allen, W.J. Brickey, Gris D, H. Wen, T.H. Kawula, and J.P. Ting. 2010. Deletion of *ripA* Alleviates Suppression of the Inflammasome and MAPK by *Francisella tularensis*. *Journal of Immunology* 185(9):5476-85.

Craven, R.R., C.J. Weber, R.A. Jennemann, and W.M. Dunne Jr. 2010. Evaluation of a Chromogenic Agar for Detection of Group B *Streptococcus* in Pregnant Women. *Journal of Clinical Microbiology* 48(9):3370-1.

Gris D., Z. Ye, H.A. Iocca, H. Wen, R.R. Craven, P. Gris, M. Huang, M. Schneider, S.D. Miller, and J.P. Ting. 2010. NLRP3 Plays a Critical Role in the Development of Experimental Autoimmune Encephalomyelitis by Mediating Th1 and Th17 Responses. *Journal of Immunology* 185(2):974-81.

Craven, R.R., X. Gao, I.C. Allen, D. Gris, J. Bubeck Wardenburg, E. McElvania-Tekippe, J.P. Ting, and J.A. Duncan. 2009. *Staphylococcus aureus* alpha-hemolysin activates the NLRP3-inflammasome in human and mouse monocytic cells. *PLoS One* 4(10):e7446.

Williams, J.C., R.R. Craven, H.S. Earp, T.H. Kawula, and G.H. Matsushima. 2009. TAM receptors are dispensable in the phagocytosis and killing of bacteria. *Cellular Immunology* 259(2):128-34.

Hall, J.D., M.D. Woolard, B.M. Gunn, R.R. Craven, S. Taft-Benz, J.A. Frelinger, and T.H. Kawula. 2008. Infected host cell repertoire and cellular response in the lung following inhalation of *Francisella tularensis* Schu S4, LVS, or U112. *Infection and Immunity* 76(12):5843-52.

Fuller, J.R., R.R. Craven, J.D. Hall, T.M. Kijek, S. Taft-Benz, and T.H. Kawula. 2008. RipA, a cytoplasmic membrane protein conserved among *Francisella* species, is required for intracellular survival. *Infection and Immunity* 76(11):4934-43.

Craven, R.R., J.D. Hall, J.R. Fuller, S. Taft-Benz, and T.H. Kawula. 2008. *Francisella tularensis* Invasion of Lung Epithelial Cells. *Infection and Immunity* 76(7):2833-42.

Hall, J.D., R.R. Craven, J.R. Fuller, R.J. Pickles, and T.H. Kawula. 2007. *Francisella tularensis* replicates within alveolar type II epithelial cells in vitro and in vivo following inhalation. *Infection and Immunity* 75(2):1034-9.

Kawula, T.H., J.D. Hall, J.R. Fuller, and R.R. Craven. 2004. Use of transposon-transposase complexes to create stable insertion mutant strains of *Francisella tularensis* LVS. *Applied and Environmental Microbiology* 70(11):6901-4.

Ng-Cashin, J., J.J. Kuhns, S.E. Burkett, J.D. Powderly, R.R. Craven, H.W. van Deventer, S.L. Kirby, and J.S. Serody. 2003. Host absence of CCR5 potentiates dendritic cell vaccination. *Journal of Immunology* 170(8):4201-8.

### Presentations

Jeremy M. Grojean, Sharda Kalla Singh, Omar Al-Nourhji, T. Scott Isbell, Robin R. Chamberland. 2015. Clinical Utility of *Trichomonas vaginalis* Molecular Testing in a High-Risk Population. Poster presented at 2015 ASM Meeting, New Orleans, LA.

2014 Resident Review Course – Medical Microbiology. Talk presented at ASCP Annual Meeting, Tampa, FL.

Chamberland, R.R., I. Regev, T.S. McMinn, D.A. Marshall, J. de la Zarda, D. Regelman. 2013. Impact of Chemical Preservation of Results of Urine Bacterial Plating. Poster presented at 2013 ICAAC Meeting, Denver, CO.

2013 Resident Review Course – Medical Microbiology. Talk presented at ASCP Annual Meeting, Chicago, IL.

2012 Microbiology Laboratory Resource: How do we identify resistance? Talk presented at 12<sup>th</sup> Annual Infectious Diseases Symposium sponsored by the Infectious Diseases Division at Washington University School of Medicine, St. Louis, MO

2012 Resident Review Course – Medical Microbiology. Talk presented at ASCP Annual Meeting, Boston, MA.

Chamberland, R.R., C.D. Doern, G.A. Storch, C-A.D. Burnham. 2012. Prevalence and Seasonal Distribution of Norovirus Infection in Pediatric Patients. Poster presented at 2012 ASM Meeting, San Francisco, California.

2011 Detection of VISA in the Clinical Laboratory. Talk presented at Southwestern Association of Clinical Microbiology workshop, St. Louis, MO.

2011 Characterization of Clinical Isolates of Vancomycin Intermediate *Staphylococcus aureus*. Talk presented at 46<sup>th</sup> Annual ACLPS Meeting, St. Louis, MO.

2011 VISA: It's Everywhere You Don't Want it to Be. Testing for Vancomycin Susceptibility in *Staphylococcus aureus*. Talk presented at Laboratory and Genomic Medicine Conference. Washington University of St. Louis.

Craven, R., C. Doern, C. Burnham, C. Weber, S. Metzger, W. Dunne. 2011. Antimicrobial susceptibility phenotypes of vancomycin intermediate *Staphylococcus aureus* isolates. Poster presented at 2011 ECCMID Meeting, Milan, Italy.

Burnham, C.A., D. Tasler, R.R. Craven, L.F. Westblade, W.M. Dunne, Jr. 2011. Evaluation of five methods for rapid detection of *Clostridium difficile* in diarrhoeal stool samples from paediatric patients. Poster presented at 2011 ECCMID Meeting, Milan, Italy.

2010 Evaluation of Chromogenic Agar for Detection of Group B *Streptococcus* in Pregnant Women. Talk presented at 45<sup>th</sup> Annual ACLPS Meeting, Nashville, Tennessee.

2010 Rapid Identification of Organisms in the Clinical Microbiology Laboratory by MALDI-TOF Mass Spectrometry. Talk presented at Laboratory and Genomic Medicine Conference. Washington University of St. Louis.

Craven, R.R., X. Gao, J.P. Ting, and J.A. Duncan. 2009. *Staphylococcus aureus*  $\alpha$ -hemolysin Induces IL-1 $\beta$  Production and Inflammatory Cell Death Through Activation of Host NLRP3. Poster presented at Keystone Symposium Pattern Recognition Molecules and Immune Sensors of Pathogens, Banff, Alberta.

Fuller, J.R., R.R. Craven, J.D. Hall, and T.H. Kawula. 2005. Characterization of an attenuated mutant allele of *Francisella tularensis* LVS. Poster presented at 2005 Tularemia Workshop, Hancock, Massachusetts.

Hall, J.D., R.R. Craven, J.R. Fuller, R.J. Pickles, and T.H. Kawula. 2004. Alveolar type 2 epithelial cell invasion and replication is required for dissemination of inhaled *Francisella tularensis*. Poster presented at the 104<sup>th</sup> annual American Society of Microbiology General Meeting, New Orleans, Louisiana.

### Teaching Experience

Saint Louis University  
Course Co-Director for Microbes and Host Response

2013-present

Saint Louis University 2012-present  
Course Director for Introduction to Clinical Pathology elective

University of North Carolina at Chapel Hill 2007  
College Teaching Certificate Series for Biomedical Scientists  
Completed course offered by the Training Initiative in Biomedical and Biological Sciences, which focused on developing curricula and syllabi for undergraduate science courses, as well as using technology in the classroom.

University of North Carolina at Chapel Hill 2004  
Teaching Assistant for Microbiology 55 (Elementary Pathogenic Microbiology) lab  
Served as a laboratory instructor for two semesters for lab sections of approximately 20 students, with responsibility for instructing students in the background and procedures for each lab, supervising the students during lab sessions, and preparing and grading lab quizzes.