

Curriculum Vitae

Lee W. Riley, MD

Professor and Chair, Division of Infectious Diseases and Vaccinology

CURRENT ADDRESS

School of Public Health, UC Berkeley
Division of Infectious Diseases
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EDUCATION

High School--International School of Bangkok, 1968
B.A. with Distinction, Stanford University, 1972
M.D., University of California, San Francisco 1978

LICENSURE

New York, 1979-present
California, 1984-present

MEMBERSHIP, ADVISORY GROUPS

American Society for Microbiology
Fellow, American Association for the Advancement of Sciences, 1998
Fellow, Infectious Disease Society of America, 2002
International Society for Infectious Diseases
Medical Advisory Board: Public Health Research Institute, NJ
Member, Bacteriology-Mycology Study Section I, NIAID, NIH, 1994-1998
Panel member, NIH Persian Gulf Experience and Health, 4/26-29, 1994
National Advisory Committee: RWJ Harold Amos Medical Faculty Development Program 2000-present
Diplomate, American Board of Internal Med, 1981
Advisory Committee, Fogarty International Center, NIH: 2003-2007
National Tuberculosis Curriculum Consortium: 2003-2009
National judge: Young Epidemiology Scholars (YES) competition: 2004-2011
Member, Clinical Res/Field Studies Infectious Diseases NIH Study Section, 2008-2012
Board of Scientific Counselors, appointed by Secretary of HHS (K. Sebelius): 2014-now

EDITORIAL BOARD

Associate Editor, *International J of Infectious Diseases*, 1996-2001
Section Editor, *Tubercle and Lung Disease*, 1997-2002
Editorial staff: *Wellness Letter*, 1997-2000
Editorial board: *Pathogens and Disease*, 2012-now

HONORS, GRANTS

Cornell Scholar in Biomedical Science, 1991-94
Pew Scholar in Biomedical Sciences, 1992-96
Jack Friedman Young Investigator Prize (First prize)
Michael Wolk Foundation Clinical Scholar Award, 1993
Heiser Program for Research in Leprosy and Tuberculosis, 1992-93
AmFAR research grant, 1992-1993
German-American Academic Council Distinguished Lectureship Award, 1998;
Fellow, American Association for the Advancement of Sciences (AAAS), 1998;
Fellow, Infectious Disease Society of America, elected in 2002
Fellow, American Academy of Microbiology, elected in 2004
Ellison Foundation Senior Investigator Award in Global Infectious Diseases, 2002-06
ASM International Professorship, Salvador, Brazil, 2001
Selection for re-publication (Riley et al, *New Engl J Med*, 1983) in *Microbiology: A Centenary Perspective*, 1899-1999 (ASM Press)

UBS Optimus Foundation award: 2011-2014
 Honorary Member, Hungarian Society for Microbiology, 2012
Honoris Causa, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania, May, 2015
 Special Visiting Researcher Award, Science-without-Borders Program, Brazil: 11/2014-now

NIH Grants:

9/1993-8/2003: RO1AI35266: Molecular biology of infection with *Mycobacterium tuberculosis*
12/1993-11/2003: RO1HL51967: Antioxidant genes of *Mycobacterium tuberculosis*
9/1997-7/2003: TWD43 TW00905: Lab-based field epid training in emerging infectious diseases
9/1998-8/2000: RO3 AI43032: Peptide-based Salmonella vaccine delivery system
9//1998-9//2000 R21 AI44287: Peptide-based delivery of HIV immunogens
9/2002-9/2004: RO3 AI053754: Epidemiology of an uropathogenic *E. coli* clonal group
9/2003-3/2013: TW006563: Emerging infectious diseases
12/2004-11/2008: RO1AI059523: Origin of multidrug-resistant uropathogenic *E. coli*
7/2005-6/2007: R21AI63350: Therapeutic vaccine against tuberculosis
7/2009-6/2012: R01AI073204: *In vivo* regulation of *M. tuberculosis* cell wall lipids
9/2010-12/2012: R24TW008822: Framework to address drug-resistant infections and global health
4/2012-7/2017: R25TW009338: Global health fellows and scholars training program
4/2015-3/2020: R01AI117064: Consortium for drug-resistant Gram-negative pathogen detection
7/2015-6/2017: R21AI119115: Maltose-targeted antibiotics

USAID Grant:

12/2001-12/2004: USAID CALR-2001-02972: Resistance of Salmonella enteritidis to egg albumen

PROFESSIONAL POSITIONS

1978-1979 Intern, Internal Medicine, Columbia-Presbyterian Hospital, New York
1979-1981 Resident, Internal Medicine, Columbia-Presbyterian Hospital, New York
1981-1984 Epidemic Intelligence Service, Enteric Diseases Branch, Division of Bacterial Diseases, Centers for Disease Control, Atlanta, GA
1984-1988 Infectious Disease Fellowship/Medical Microbiology Post-Doctorate, Stanford University
1988-1990 Centers for Disease Control, assigned to WHO in New Delhi (SEARO), Laboratory Project Manager, India Biomedical Support Project
1990-1994 Assistant Professor of Medicine, Division of International Medicine, Department of Medicine, Cornell University Medical College (CUMC)
1994-1996 Associate Professor of Medicine, CUMC
1996-present Professor of Infectious Diseases and Epidemiology, University of California, Berkeley
2008-present Chair, Division of Infectious Diseases and Vaccinology, School of Public Health University of California, Berkeley

INTERNATIONAL EXPERIENCES:

Birth-1964 Grew up in Yokohama and Tokyo, Japan
 1964-1968 Bangkok, Thailand (because of father's work)
 1970, 71, 72 Bangkok, Thailand each summer to work as an English instructor
 1972-1973 Tokyo, Japan, as an exchange student
 1977 Chiangmai, Thailand for 3 months for medical clerkship during medical school
 1981 Santo Domingo and Haiti for investigation of gastroenteritis outbreak on a

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| | cruise ship |
| 1982 (Nov-Dec) | Sao Paulo, Brazil for epidemiologic investigation of multiresistant Salmonella (by invitation of Escola Paulista de Medicina) |
| 1983 (Sep-Nov) | Dhaka, Bangladesh, to assess surveillance of cholera (by invitation of International Center for Diarrheal Disease Research, Bangladesh) |
| 1986, 1987 | Chiapas, Mexico, to help establish a field site for the study of diarrheal diseases for the division of Geographic Medicine at Stanford University |
| 1988 (Aug) | Manila, Philippines, to assess public health laboratories and their relationship to their Field Epidemiology Training Program (FETP) |
| 1988-1990 | New Delhi, India, as a Laboratory Project Manager, WHO/Southeast Asia Regional Office, on assignment from CDC, Atlanta |
| 1989 (May) | Beijing, China, to discuss the role of the laboratory in epidemiology |
| 1989 (Aug) | Myanmar (Burma) and Thailand to conduct a WHO workshop on Transfer of Appropriate Technology in Diagnosis and Surveillance of Shigellosis in Southeast Asia |
| 1990-1996 | Established a project on invasive diarrhea, Cornell Research Unit, Salvador, Brazil |
| 1992-now | Tuberculosis research projects in Brazil (Sao Paulo, Rio de Janeiro-Salvador) |
| 1994 (Dec) | Temporary Advisor, WHO, Geneva, Evaluate use of RFLP and other molecular subtyping techniques for epidemiological studies |
| 1992, 94, 97, 07, 11,13 | Infectious Disease Update courses, given in Taipei, Taiwan and Shanghai, China |
| 1998-2001 | Course on Molecular Epidemiology; University of Zurich, Switzerland (given for 1-2 days every Dec or July as part of an MPH program of the University of Zurich) |
| 1996-2011 | Cornell Salzburg Seminar in Infectious Diseases and Epidemiology; (course given over a 1-week period every year to East European physicians and public health professionals) |
| 1997-2002 | Director, UC Berkeley Fogarty International Training and Research in Emerging Infectious Diseases |
| 1998-2003 | Director, Fogarty International Training and Research in Tuberculosis |
| 1998-2000 | Consultant, International Clinical Epidemiology Network (INCLIN) for India |
| Summer, 2002 | ASM International Professorship to give a course on Molecular Epidemiology of Infectious Diseases, Salvador Brazil |
| Summers, 2001-now | Ibero-American Course on Molecular Epidemiology of Infectious Diseases I-IV, Salvador, Brazil |
| 2003-2013 | Director, UC Berkeley Fogarty International Center program in Global Infectious Diseases |
| January, 2006 | American Society of Microbiology (ASM) Indo-US Visiting Professorship, Mahatma Gandhi Institute of Medical Sciences, Sevagram, India |
| Since 2009 | Short-term consultant to teach Molecular Epidemiology of Infectious Disease, FETP-Japan, National Institute of Infectious Diseases, Tokyo (every 2 years). |
| 2012-now | Director, Global Health Scholars and Fellows Training and Research Program (Global Health Equity Scholars Program) |
| 2014-now | Special visiting researcher, Science-without-Borders, Ministry of Health, Brazil |

PATENTS BASED ON RESEARCH WORK:

| US Patent Number | Date of Issue | Inventor | Description of patent |
|-------------------------|----------------------|---------------------|---------------------------------------------------------|
| 6,008,201 | 12/28/1999 | Riley | DNA molecule encoding cellular uptake of Mtb |
| 6,072,048 | 6/6/2000 | Riley | DNA molecule encoding cellular uptake of Mtb |
| 6,214,543 | 4/10/2001 | Riley | DNA molecule encoding cellular uptake of Mtb |
| 6,177,086 | 1/23/2001 | Riley, Nathan, Ehrt | DNA molecule conferring upon Mtb resistance against RNI |
| 6,224,881 | 5/1/2001 | Riley | DNA molecule encoding cellular uptake of Mtb |

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|-----------|------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| 6,399,764 | 6/4/2002 | Riley | DNA molecule encoding cellular uptake of Mtb |
| 6,509,151 | 1/21/2003 | Riley | DNA molecule encoding cellular uptake of Mtb |
| 6,995,255 | 2/07/2006 | Riley, Lu | Cellular delivery agent |
| 8,445,658 | 05/21/2013 | Ko, Mitermayer, Croda, Siqueira, Haake, Matsunaga, Riley, Barocchi, Young | Proteins with repetitive bacterial IgG-like proteins |

BIBLIOGRAPHY

Journal Articles

1. Riley LW, Remis RS, Helgerson SD, McGee HB, Wells JG, Davis BR, Herbert RJ, Olcott H, Johnson L, Hargrett N, Blake PA, Cohen ML. Outbreaks of hemorrhagic colitis associated with a rare *E. coli* serotype. **New Eng J Med.** 1983; 308:681-685.
2. Riley LW, DeFerdinando GT, DeMelfi TM, Cohen ML. Evaluation of isolated cases of salmonellosis by plasmid profile analysis: introduction and transmission of a bacterial clone by a contaminated commercial product. **J Infect Dis** 1983; 148:12-17.
3. Riley LW, Cohen ML, Seals JE, Blaser MJ, Birkness KA, Hargrett NT, Martin SM, Feldman RA. Importance of host factors in human salmonellosis caused by multiresistant strains. **J Infect Dis.** 1984; 149:878-883.
4. Riley LW, Ceballos BSO, Trabulsi LR, Toledo MRF, Blake PA. Significance of hospitals as reservoirs for endemic multiresistant *S. typhimurium* causing infections in urban Brazilian children. **J Infect Dis.** 1984; 150:236-241.
5. Riley LW, Finch MJ. Results of the first year of national *Campylobacter* surveillance in the United States. **J Infect Dis.** 1985; 151:956-959.
6. Finch MJ, Riley LW. *Campylobacter* infections in the United States: results of 11-state surveillance. **Arch Intern Med.** 1984; 144:1610-1612.
7. Wells JG, Davis BR, Wachsmuth IK, Riley LW, Remis RS, Sokolov R. Laboratory investigation of outbreaks of hemorrhagic colitis associated with a rare *Escherichia coli* serotype. **J Clin Microbiol** 1983; 18:512-520.
8. Remis RS, McDonald KL, Riley LW, Puhr ND, Wells JG, Davis BR, Birkness KA, Blake PA, Cohen ML. Sporadic cases of hemorrhagic colitis in the United States. **Annals Intern Med.** 1984; 101:624-6.
9. Riley LW. Hemorrhagic colitis--a "new" disease. **Clin Micro Newsletter.** 1985; 7:47-49.
10. Paulozzi LT, Johnson KE, Kamahale LM, Clausen CR, Riley LW, Helgerson SD. Diarrhea associated with adherent enteropathogenic *E. coli* in an infant toddler center, Seattle, Washington. **Pediatrics.** 1986; 77:296-300.
11. Riley LW, Waterman SH, Faruque ASG, Huq MI. Breastfeeding children in the household as a risk factor for cholera in rural Bangladesh: an hypothesis. **J Trop Geogr Med.** 1987; 39:9-14.
12. Riley LW. The epidemiologic, clinical, and microbiologic features of hemorrhagic colitis. **Annual Rev of Microbiol.** 1987; 41:383-407.
13. Riley LW, Junio L, Libaek LB, Schoolnik GK. Plasmid-encoded expression of lipopolysaccharide O-antigenic polysaccharide in enteropathogenic *Escherichia coli*. **Infect Immun** 1987; 55:2052-56.
14. Riley LW, Arathoon E, Loverde V. Epidemiologic patterns of drug-resistant *Mycobacterium tuberculosis* infections: a community-based study. **Am Rev Respir Dis.** 1989; 139:1282-85.
15. Toth I, Cohen ML, Rumschlag HS, Riley LW, White EH, Carr JH, Bond WW, Wachsmuth IK. Influence of the 60-Mdal plasmid on adherence of *E. coli* O157:H7 and genetic derivatives. **Infect Immun** 1990; 58:1223-1231.
16. Riley LW, Munoz EC, Zarate R, Sibley B, Keller J, Zarate L, Valasquez FM, Schoolnik GK. Factores de riesgo de diarrea infantil aguda en una comunidad rural de Chiapas, Mexico. Una estrategia de intervencion. **Bol Of Sanit Panam.** 1990; 108:93-99.
17. Frankel G, Riley LW, Giron JA, Valmossoi J, Friedmann A, Strockbine N, Falkow S, Schoolnik GK. Detection of

- Shigella in feces using DNA amplification. **J Infect Dis.** 1990;161:1252-1256.
18. Riley LW, Munoz EC, Zarate R, Sibley B, Keller J, Zarate L, Valasquez FM, Schoolnik GK. Examination of risk factors for acute childhood diarrhea in the highlands of Chiapas, Mexico. **Bull PAHO.** 1990; 24:210-216.
 19. Panda CS, Riley LW, Kumari SN, Prakash K. Comparison of alkaline-phosphatase-conjugated oligonucleotide DNA probe with the Sereny test for identification of Shigella strains. **J Clin Microbiol.** 1990; 28:212-2124.
 20. Khanna KK, Dhanvijay A, Riley LW, Sehgal S, Kumari S. Cholera outbreak in Delhi--1988. **J Commun Dis** 1990;22:35-8.
 21. Riley LW, Junio L, Schoolnik GK. Hela cell invasion by enteropathogenic *Escherichia coli* lacking O-antigenic polysaccharide. **Molec Microbiol.** 1990; 4:1661-1666.
 22. Giron J, Jones T, Millan-Velasco F, Castro-Munoz E, Zarate L, Fry J, Mosely SL, Baudry B, Kaper JB, Schoolnik GK, and Riley LW. Diffuse-adhering *Escherichia coli* as a putative cause of diarrhea in Mayan children in Mexico. **J Infect Dis.** 1991; 163:507-513.
 23. Chattopadhyaya D, Riley LW, Kumari S. Behavioral risk factors for acquisition of HIV infection and knowledge about AIDS among male professional blood donors in Delhi. **Bull WHO.** 1991; 69:319-323.
 24. Laraque F, Riley LW. Tuberculosis in HIV-infected patients. **AIDS Reader.** 1992; 2:171-180.
 25. Barreto, JA, Palaci M, Ferrazoli L, Riley LW, Johnson WD, and Galvao PA. Isolation of *Mycobacterium avium* complex from bone marrow aspirates of AIDS patients in Brazil. **J Infect Dis.** 1993;168:777-9.
 26. Arruda S, Bomfim G, Knights R, Huima-Byron T, Riley LW. Cloning of a *Mycobacterium tuberculosis* DNA fragment associated with HeLa cell entry and survival inside human macrophage. **Science** 1993;261:1454-7.
 27. Riley LW. Drug-resistant tuberculosis. **Clin Infect Dis.** 1993;17:S442-6.
 28. Stoeckle M, Guan L, Riegler N, Weitzman I, and Riley LW. Catalase-peroxidase gene sequences in isoniazid-sensitive and resistant strains of *M. tuberculosis* from New York City. **J Infect Dis.** 1993;168:1063-5.
 29. Kikuchi K, Bernard EM, Kiehn TE, Armstrong D, Riley LW. Restriction fragment length polymorphism analysis of clinical isolates of *Mycobacterium haemophilum*. **J Clin Microbiol** 1994;32:1763-67.
 30. NIH Technology Assessment Workshop Panel. The Persian Gulf experience and health. **JAMA.** 1994;272:391-395.
 31. Ferrazoli L, Palaci M, Telles MAS, Ueki SY, Kritski A, Marques LRM, Ferreira O, Riley LW. Catalase expression, *katG*, and isoniazid minimal inhibitory concentration of *Mycobacterium tuberculosis* isolates from Sao Paulo, Brazil. **J Infect Dis** 1995;171:237-40.
 32. Riley LW. Mechanisms of phagocytosis of *M. tuberculosis*. **Trends in Microbiol.** 1995;3:27-31.
 33. Sepkowitz KA, Raffalli JR, Riley LW, Kiehn TE, Armstrong D. Tuberculosis in the AIDS era. **Clin Microbiol Rev.** 1995;8:180-199.
 34. Gunzburg ST, Tornieporth NG, Riley LW. Identification of enteropathogenic *Escherichia coli* by a PCR-based detection of the bundle-forming pilus gene. **J Clin Microbiol.** 1995;33:1375-77.
 35. Tornieporth, NG, John J, Salgado K, Jesus P, Latham E, Melo C, Gunzburg S, Riley LW. Differentiation of pathogenic *E. coli* in Brazilian children by polymerase chain reaction. **J Clin Microbiol.** 1995;33:1371-74.
 36. Friedman CR, Stoeckle MY, Johnson W, Riley LW. Double repetitive element (DRE)-PCR method for subtyping *Mycobacterium tuberculosis* clinical isolates. **J Clin Microbiol.** 1995;33:1383-84.
 37. Friedman CR, Stoeckle MY, Kreiswirth BN, Johnson WD, Manoach SM, Sathianathan K, Hafner A, Riley LW. Transmission of multidrug-resistant tuberculosis in a large urban setting. **Am J Respir Crit Care Med.** 1995;152:355-59.
 38. Delihias N, Riley LW, Loo W, Berkowitz J, Poltoratskaia N. High sensitivity of *Mycobacterium* species to the bactericidal activity by polylysine. **FEMS Microbiology Let.** 1995;132:233-37.
 39. Kritski AL, Marquez MJO, Rabahi MF, Vieira MAM, Werneck-Barroso E, Carvalho CES, Andrade GN, Bravode Souza R, Andrade LM, Gontijo PP, Riley LW. Transmission of tuberculosis to close contacts of patients with

- multidrug-resistant tuberculosis. **Am J Respir Crit Care Med.** 1996;153:331-35.
40. Casper C, Singh SP, Rane S, Daley CR, Schecter GS, Riley LW, Small PM. Transcontinental transmission of tuberculosis? A molecular epidemiological assessment. **Am J Public Health.** 1996; 86:551-53.
 41. Sepkowitz KA, Riley LW, Friedman CR, Stoeckle MY. Tuberculosis among urban health care workers: a study utilizing restriction fragment length polymorphism typing. **Clin Infect Dis.** 1995;21:1098-102.
 42. Ferreira MMC, Ferrazoli L, Moises P, Salles PS, Medeiros LA, Novoa P, Kiefer CR, Schechtmann M, Kritski AL, Johnson WD, Riley LW, Ferreira OC. Tuberculosis and HIV infection among women inmates in Sao Paulo, Brazil: a prospective cohort study. **J AIDS.** 1996;13:177-183.
 43. Lin RL, Bernard EM, Armstrong D, Chen CH, Riley LW. Transmission patterns of tuberculosis in Taiwan: analysis by restriction fragment length polymorphism. **Int J Infect Dis** 1996;1:18-21.
 44. Seigel RR, Sant'anna CS, Salgado K, deJesus P, Riley LW. Acute diarrhea among children from high and low socioeconomic communities in Salvador, Brazil. **Int J Infect Dis** 1996;1:28-34.
 45. Mannheimer SB, Riley LW, Roberts RB. The association of penicillin-resistant pneumococcus with residence in a pediatric chronic care facility. **J Infect Dis.** 1996; 174:513-9.
 46. Tornieporth NG, Roberts RB, John J, Hafner A, Riley LW. Risk factors associated with vancomycin resistant *Enterococcus faecium* (VREF) infection/colonization in 145 matched case and control patients. **Clin Infect Dis** 1996;23:767-72.
 47. Kritski A, Jesus LSR, Andrade MK, Werneck-Barroso E, Monteiro MA, Haffner A, Riley LW. Retreatment tuberculosis cases: factors associated with drug resistance and adverse outcomes. **Chest.** 1997;111:1162-67.
 48. Friedman CR, Quinn GC, Kreiswirth BN, Perlman DC, Salomon N, Schluger N, Lutfey M, Berger J, Polratskaia N, Riley LW. Widespread dissemination of a single drug-susceptible strain of *M. tuberculosis*. **J Infect Dis.** 1997;176:478-84.
 49. Mannheimer SB, Sepkowitz KA, Stoeckle M, Friedman CR, Hafner A, Riley LW. Risk factors and outcomes of human immunodeficiency virus-infected patients with sporadic multidrug-resistant tuberculosis in New York City. **Int J Tuberc Lung Dis.** 1997;1:319-25.
 50. Ehrt S, Shiloh MU, Ruan J, Choi M, Gunzburg S, Nathan C, Xie QW, Riley LW. A novel antioxidant gene from *M. tuberculosis*. **J Exp Med.** 1997;186:1885-96.
 51. Tornieporth NG, Ptachewich Y, Poltoratskaia N, Ravi BS, Katapadi M, Berger JJ, Dahdouh M, Segal-Maurer S, Glatt A, Adamis R, Lerner C, Armstrong D, Weiner M, D'Amato R, Kiehn T, Lavie S, Stoeckle MY, Riley LW. Tuberculosis among foreign-born persons in New York City, 1992-1994: implications for tuberculosis control. **Int J Tuberc Lung Dis** 1997;1:528-35.
 52. Kubin M, Riley LW, Havelkova M, Poltoratskaia N, Kocova A. Molecular epidemiology of tuberculosis in Prague: analysis by restriction fragment length polymorphism. **Int J Infect Dis.** 1998;2:155-8.
 53. Schriefer, A, Maltez JR, Silva N, Stoeckle MY, Barral-Netto M, Riley LW. Expression of a pilin subunit BfpA of the bundle-forming pilus of enteropathogenic *E. coli* in an *aroA* live *Salmonella* vaccine strain. **Vaccine** 1999;17:770-78.
 54. Harris E, Sandoval E, Xet-Mull AM, Johnson M, Riley LW. Rapid subtyping of dengue viruses by restriction site specific (RSS)-PCR. **Virology** 1999;253:86-95.
 55. Ruan J, St. Louis G, Ehrt S, Riley LW, Nathan C. NOXR3, a novel gene from *M. tuberculosis* protects *Salmonella typhimurium* from nitrosative and oxidative stress. **Infect Immun** 1999;67:3276-83.
 56. Burroughs, M, Beitel, A, Kawamura, A, Revai, K, Ricafort, R, Chiu, K, Jacobs, R, Riley, LW. Pediatric Tuberculosis Consortium. Clinical presentation of tuberculosis in culture-positive children. **Pediatric Infectious Disease Journal.** 1999;8:440-446.
 57. Ko AI, Reis MG, Dourado CMR, Johnson WD, Riley LW and the Salvador Leptospirosis Study Group. Urban epidemic of severe leptospirosis in Brazil. **Lancet.** 1999;354:820-25.

58. Niederweis M, Ehrh S, Heinz C, Klocker U, Karosi S, Swiderek K, Riley LW, Benz R. Cloning of the *mspA* gene encoding a porin from *Mycobacterium smegmatis*. **Molecular Microbiol.** 1999;33:933-45.
59. Lu S, Manges AR, Xu Y, Fang FC, Riley LW. Analysis of virulence of clinical isolates of *Salmonella enteritidis* in vivo and in vitro. **Infect Immun** 1999;67:5651-57.
60. Ferrazoli L, Palaci M, Marques LRM, Jamal LF, Aifune JB, Chimara E, Martins MC, Telles MAS, Oliveira CAF, Palhares MC, Spada DTA, Riley LW. Transmission of tuberculosis in an endemic urban setting in Brazil. **Int J Tuberc Lung Dis.** 2000;4:18-25.
61. Ko AI, Reis JN, Coppola SJ, Gouveia EL, Cordeiro MS, Lobo TS, Pinheiro RM, Salgado K, Ribeiro DCM, Tavares-Neto J, Rocha H, Reis MG, Johnson WD, Riley LW. Clonally-related penicillin-resistant serotype 14 *Streptococcus pneumoniae* from cases of meningitis in Salvador, Brazil. **Clin Infect Dis.** 2000;30:78-86.
62. Miagostovitch MP, Santos FB, Guitierrez CM, Riley LW, Harris E. Rapid subtyping of dengue virus serotypes 1 and 4 by restriction site-specific PCR. **J Clin Microbiol.** 2000;38:1286-89.
63. Kimura R, Mandrell RE, Galland JC, Hyatt D, Riley LW. Restriction-site-specific (RSS)-PCR as a rapid test to detect enterohemorrhagic *E. coli* O157:H7 strains in environmental samples. **Appl Environ Microbiol.** 2000;66:2513-19.
64. Buchmeier N, Blanc-Potard A, Ehrh S, Piddington D, Riley LW, Groisman EA. A parallel intraphagosomal survival strategy shared by *Mycobacterium tuberculosis* and *Salmonella enterica*. **Molecular Microbiol.** 2000;35:1375-82.
65. Fandinho FCO, Kritski AL, Hofer C, Conde Jr H, Ferreira RMC, Saad MHF, Silva MG, Riley LW, Fonseca LS. RFLP patterns and risk factors for resistant tuberculosis transmission among hospitalized tuberculosis patients in Rio de Janeiro, Brazil. **Trans Royal Soc Trop Med Hyg.** 2000;94:271-275.
66. Stewart GR, Ehrh S, Riley LW, Dale JW, and McFadden J. Deletion of the putative antioxidant NoxR1 does not alter the virulence of *Mycobacterium tuberculosis* H37Rv. **Tubercle and Lung Dis.** 2000;80:237-242.
67. Magnani J, Mathema B, Berger J, Brown S, David M, Glatt A, Pujol F, Segal-Maurer S, Riley LW, Kreiswirth BN, Sepkowitz KA. Molecular epidemiology of tuberculosis among eight hospitals in New York City, 1996-1997. **Int J Infect Dis.** 2001;5:126-32.
68. Barocchi MA, Ko AI, Ferrer SR, Faria MT, dos Reis MG, Riley LW. Identification of a new repetitive element in *Leptospira interrogans* serovar copenhageni and its application to PCR-based differentiation of *Leptospira* serogroups. **J Clin Microbiol.** 2001;39:191-195.
69. Chitale S, Ehrh S, Kawamura I, Fujimura T, Shimono N, Anand N, Lu S, Cohen-Gould L, and Riley LW. Recombinant *Mycobacterium tuberculosis* protein associated with mammalian cell entry. **Cellular Microbiol.** 2001;3:247-254.
70. Krekulova L, Rehak V, Wakil AE, Harris E, Riley LW. Nested restriction-site-specific PCR to type hepatitis C virus: a rapid method to distinguish HCV subtype 1b from other genotypes. **J Clin Microbiol.** 2001;39:1774-80.
71. Foxman B and Riley LW. Molecular epidemiology: focus on infection. **Am J Epidemiol.** 2001;153:1135-1141.
72. Webb M, Riley LW, Roberts RB. Cost of hospitalization and risk factors attributable to vancomycin-resistant *Enterococcus faecium* infection. **Clin Infect Dis** 2001;33:445-452.
73. Krekulova L, Rehak V, Madrigal N, Johnson M, Riley LW. Genotypic and epidemiologic characteristics of hepatitis C virus (HCV) infections among injection drug user and non-user populations. **Clin Infect Dis.** 2001;33:1435-8.
74. Flannery B, Costa D, Carvalho FP, Guerreiro H, Matsunaga, J, Silva ED, Ferreira AGP, Riley LW, Reis MG, Haake DA, Ko AI. Evaluation of recombinant *Leptospira* antigen-based enzymelinked immunosorbent assays for the serodiagnosis of Leptospirosis. **J Clin. Microbiol,** 2001;39:3303-10.
75. Manges AR, Johnson JR, Foxman B, O'Bryan TT, Fullerton KE, and Riley LW. Widespread distribution of urinary tract infections caused by a multidrug-resistant *Escherichia coli* clonal group. **New Engl J Med.**

2001;345:1007-13.

76. Flannery B, Pereira MM, Velloso LF, Carvalho CC, Codes LG, Orrico GS, Dourado CMR, Riley LW, Reis MG, Ko AI. Referral Pattern of Leptospirosis Cases During a Large Urban Epidemic of Dengue. **Am. J. Trop. Med. Hyg.** 2001;65: 657-663.
77. Krekulova L, Rehak V, Killoran P, Madrigal N, Riley LW. Genotypic distribution of TT virus (TTV) in a Czech population: evidence for sexual transmission of the virus. **J Clin Virol.** 2001;23:31-41.
78. Kaps I, Ehrh S, Seeber S, Schnappinger D, Martin C, Riley LW, Niederweis M. Energy transfer between fluorescent proteins using a co-expression system in *Mycobacterium smegmatis*. **Gene** 2001;278:115-124.
79. Lu S, Killoran PB, Fang F, Riley, LW. The global regulator ArcA controls resistance to reactive nitrogen and oxygen intermediates in *Salmonella enteritidis*. **Infect Immun** 2002;70:451-461.
80. Firmani M, Riley LW. *Mycobacterium tuberculosis* CDC 1551 is resistant to Reactive Nitrogen and Oxygen Intermediates *in vitro*. **Infect Immun.**2002;70:3965-68.
81. Pellegrino FLPC, Teixeira LM, Carvalho MGS, Nouér SA, Oliveira MP, Sampaio JLM, Freitas AA, Ferreira, ALP, Amorim ELT, Riley LW, and Moreira BM. Occurrence of a Multidrug-Resistant *Pseudomonas aeruginosa* Clone in Different Hospitals Located in Rio de Janeiro, Brazil. **J Clin Microbiol.** 2002;40:2420-24.
82. Johnson JR, Manges AR, O'Bryan TT, and Riley LW. A Broadly Disseminated Multi-Drug Resistant Clonal Group of Extraintestinal Pathogenic *Escherichia coli* as a significant cause of acute pyelonephritis in the U.S. **Lancet.** 2002;359:2249-51.
83. Firmani M, Riley LW. Reactive nitrogen intermediates are bacteriostatic to *Mycobacterium tuberculosis* *in vitro*. **J Clin Microbiol.** 2002;40:3162-66.
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