



Julio Alberto Ramirez, MD, FACP

Chief Scientific Officer, Norton Infectious Diseases Institute,
Norton Healthcare, Louisville, Kentucky, USA.
Emeritus Professor of Medicine, Infectious Diseases,
University of Louisville, Louisville, Kentucky, USA

BIOGRAPHICAL SKETCH

Julio Ramirez, MD, FACP is the Chief Scientific Officer at the Norton Infectious Diseases Institute at Norton Healthcare, in Louisville, Kentucky. He is also Emeritus Professor of Medicine, Division of Infectious Diseases at the University of Louisville, Louisville, Kentucky, and a Fellow of the American College of Physicians and the Infectious Diseases Society of America (IDSA).

Dr. Ramirez received his medical degree and internal medicine training at La Plata National University School of Medical Science in Argentina. He trained in critical care medicine at the National Institute of Respiratory Diseases and Thoracic Surgery at the University of Chile; completed a residency in internal medicine at Lincoln Medical Center, New York Medical College; and a fellowship in infectious diseases at the University of Louisville School of Medicine. He is board-certified in internal medicine and holds subspecialty certification in infectious diseases.

Dr. Ramirez's areas of clinical and translational research include community-acquired pneumonia (CAP), influenza, and emerging respiratory pathogens. Dr. Ramirez is directing the research activities of the Norton Infectious Diseases Institute. Dr. Ramirez's research activities have received funding from the Centers for Disease Control and Prevention (CDC), the Department of Defense (DoD), and the National Institutes of Health (NIH). Dr. Ramirez has more than 250 peer-reviewed publications. He is also a reviewer for several journals including the *New England Journal of Medicine* and *Annals of Internal Medicine*. Dr. Ramirez is currently the Section Editor on pulmonary infections for the evidence-based clinical decision support *UpToDate*.

Dr. Ramirez served as a member of the American Thoracic Society (ATS) committee for the development of national guidelines for the management of CAP, and more recently, on the ATS International Task Force guidelines for the management of COVID-19. He also served as a member of the Food and Drug Administration advisory committee for the approval of anti-infective drugs. Dr. Ramirez is the recipient of the 2013 European Respiratory Society Presidential Award in recognition of his outstanding contribution to research in the field of respiratory infections. Dr. Ramirez is the co-chair for the current ATS-IDSA national guidelines committee for the management of CAP.

Emeritus Professor of Medicine, University of Louisville
Louisville, KY, USA.

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EDUCATIONAL BACKGROUND

B.A., National College La Plata National University
1964-1969 La Plata, Argentina

M.D., Medical School La Plata National University, School of Medical Science 1970-1976 La Plata,
Argentina

Residency in Internal Medicine La Plata National University, Postgraduate Medical School 1976-1977 La
Plata, Argentina

Fellowship in Critical Care Medicine National Institute of Respiratory Diseases and Thoracic Surgery 1977-1978
Santiago, Chile

Residency in Internal Medicine New York Medical College, Lincoln Medical Center 1984-1987 New
York, NY

Fellowship in Infectious Diseases University of Louisville, School of Medicine 1987-1989
Louisville, KY

TITLES AND CERTIFICATION

M.D. La Plata National University, School of Medical Science 1975 Buenos Aires, Argentina

Diplomate in Critical Care Medicine Province of Buenos Aires Medical College Certifying Exam 1981
Buenos Aires, Argentina

Diplomate in Internal Medicine American Board Certifying Exam #114276 1987
Louisville, KY

Diplomate in Infectious Diseases American Board of Subspecialties Certifying Exam #114276 1990
Cleveland, OH
2001 Atlanta, GA
2011 Louisville, KY

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ACADEMIC APPOINTMENTS

2001-Present Professor of Medicine, Department of Medicine, University of Louisville School of Medicine,
Louisville, KY

2012-2020 Associate Professor in Microbiology and Immunology, University of Louisville School of
Medicine, Louisville, KY

1995-2001 Associate Professor of Medicine, Department of Medicine, University of Louisville School of Medicine, Louisville, KY

1989-1995 Assistant Professor of Medicine, Department of Medicine, University of Louisville School of Medicine, Louisville, KY

1998-2001 Associate Clinical Professor, Department of Pathology, University of Louisville School of Medicine, Louisville, KY

CURRENT LEADERSHIP POSITIONS

1995-2021 Chief, Division of Infectious Diseases, University of Louisville School of Medicine, Louisville, KY

1992-2021 Director, Infectious Diseases Fellowship Training Program, University of Louisville School of Medicine, Louisville, KY

1999-Present Director, Community Acquired Pneumonia Organization (CAPO), Global network to foster research in pneumonia and influenza

2007-2021 Director, Bone and Joint Infection Program, University of Louisville Hospital, Louisville, KY

2009-2021 Director, HIV Program, University of Louisville School of Medicine, Louisville, KY

2011-2021 Director, Center of Excellence for Research in Infectious Diseases (CERID), Department of Medicine University of Louisville, Louisville, KY

2021-Present Chief Scientific Officer, Norton Infectious Diseases Institute, Norton Healthcare, Louisville, KY

PROFESSIONAL CAREER

1979-1981 Staff Physician, Intensive Care Unit. Dr. R. Rossi Hospital La Plata, Argentina

1981-1984 Staff Physician, Intensive Care Unit. Gral San Martin, La Plata University Hospital La Plata, Argentina

1981-1984 Staff Physician, Intensive Care Unit. Instituto Diagnostico La Plata Argentina

1989-Present Staff Physician, Consultant in Infectious Diseases, University of Louisville Hospital Louisville, KY

1989-Present Staff Physician, Consultant in Infectious Diseases, Robley Rex VA Medical Center Louisville, KY

1990-Present Staff Physician, Consultant in Infectious Diseases, Jewish Hospital Louisville, KY

1990-Present Staff Physician, Consultant in Infectious Diseases, Norton Hospital Louisville, KY

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PROFESSIONAL AFFILIATIONS

Alpha Omega Alpha Honor Medical Society

American Medical Association

Infectious Disease Society of America

European Respiratory Society

American Society for Microbiology

Fellow, American College of Physicians

American College of International Physicians

Latinamerican Society of Infectious Diseases
Kentucky Medical Association
Kentucky Thoracic Society
Jefferson County Medical Society

MEDICAL LICENSURE

Kentucky License #25052
Indiana License #01039060A

UNIVERSITY OF LOUISVILLE COMMITTEES

1999-2000 Chairman: University of Louisville Pediatric Chair Review Committee
2002-2005 Member: University of Louisville Department of Medicine Promotion and Tenure Committee
2001-2003 Member: University of Louisville Faculty Forum
2002 Member: University of Louisville Search Committee for Chair of Human Studies 2003 Chairman:
University of Louisville Dean of School of Medicine 5-year review Committee 2009-2021 Member: Department
of Medicine Promotion and Tenure Committee 2010-2021 Member: Department of Medicine Faculty
Compensation Committee **HOSPITAL COMMITTEES**

1990-2012 Chairman: Veterans Affairs Medical Center Antibiotic Subcommittee 1990-2021 Chairman:
Veterans Affairs Medical Center Infection Control Committee 1990-1998 Member: Veterans Affairs Medical
Center Pharmacy and Therapeutics Committee 1993-2004 Chairman: University of Louisville Hospital
Infection Control & Prevention Committee 1998-2013 Chairman: University of Louisville Hospital Antibiotic
Subcommittee 1998-2014 Member: Clinical Research Foundation, Inc. Board of Directors 2000-2014
Chairman: Kindred Hospital Infection Control Committee

NATIONAL COMMITTEES

1999-2001 Member: American Thoracic Society Community-Acquired Pneumonia Guidelines Committee
2001-2005 Member: Food and Drug Administration advisory committee for anti-infective drugs
2006-2007 Member: US Department of Health and Human Services, National Institute of Health, National
Institute of Allergy and Infectious Disease, Division of Extramural
Activities, Scientific Review Board

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HONORS

1987 -1988 Fellow Award for Excellence in Teaching
University of Louisville, School of Medicine, Department of Medicine
1988-1989 Fellow Award for Excellence in Teaching
University of Louisville, School of Medicine, Department of Medicine
1989 Elected as House Staff Member to Alpha Omega Alpha Honor Medical Society. Alpha of Kentucky
Branch, University of Louisville School of Medicine
1994 Young Investigator Award
University of Louisville
1995 School of Medicine Nomination in Recognition of Distinguished Service University of
Louisville
1999 School of Medicine Nomination in Recognition of Distinguished Service University of

Louisville

2013 Graduados Ilustres (Distinguished Graduates)

National University of La Plata, School of Medicine

2013 Presidential Award (in recognition of outstanding contribution to research in respiratory infections and clinical management of pneumonia)

European Respiratory Society

PRIMARY AREA OF RESEARCH

1. Clinical and Translational Research in Respiratory Infections, Pneumonia, Influenza and Emerging Respiratory Pathogens

REVIEWER FOR:

1. The New England Journal of Medicine
2. The Journal of Clinical Investigation
3. Southern Medical Journal
4. Circulation
5. Annals of Internal Medicine
6. American Journal of Obstetrics and Gynecology
7. Journal of Clinical Outcomes Management
8. American Journal of Surgery
9. European Respiratory Journal
10. Journal of Managed Care Pharmacy
11. Therapeutics and Clinical Risk Management
12. Joint Commission Journal on Quality and Safety
13. Chest
14. Clinical Infectious Diseases
15. Journal of Infection
16. Respiratory Research

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RESEARCH PROJECTS

Research proposals identified as “*Investigator Initiated*” indicates that Dr. Ramirez developed the proposal. Research proposals identified as “*Industry Initiated*” indicates that a particular pharmaceutical company developed the proposal.

1. *Project Title:* “Activity of Fluoroquinolone antibiotics alone or in combination with

Erythromycin or Rifampin against intracellular *Legionella pneumophila*”

Research Proposal: Investigator Initiated

Funding Source: Johnson Pharmaceutical Research Institute (\$8,500)

Role: Principal Investigator (1989)

2. *Project Title:* “Comparative Study of the Bactericidal Activity of Ampicillin/Sulbactam and Erythromycin Against Intracellular *Legionella pneumophila* in a Cell Culture Model”

Research Proposal: Investigator Initiated

Funding Source: Pfizer Pharmaceuticals (\$6,500)

Role: Principal Investigator (1989)

3. *Project Title:* “Activity of Cefixime against 500 Enterobacteriaceae Respiratory Isolates from Patients in intensive Care Units”

Research Proposal: Investigator Initiated

Funding Source: Lederle Laboratories (\$5,000)

Role: Principal Investigator (1989)

4. *Project Title:* “Activity of Temafloxacin for the Treatment of Patients with Community Acquired Pneumonia Requiring Hospitalization.”

Research Proposal: Industry Initiated

Funding Source: Abbott Laboratories (\$35,000)

Role: Principal Investigator (1989-1991)

5. *Project Title:* “Development of a Drug Use Evaluation Program for Antimicrobial Agents”

Research Proposal: Investigator Initiated

Funding Source: Miles Laboratory (\$15,000)

Role: Principal Investigator (1990)

6. *Project Title:* “In Vitro Susceptibility Testing of 500 Respiratory Isolates From Patients at Risk of Hospital-Acquired Pneumonia”

Research Proposal: Investigator Initiated

Funding Source: SmithKline Beecham Pharmaceuticals (\$7,595)

Role: Principal Investigator (1990)

7. *Project Title:* “Prospective Bacteriological Study of Community-Acquired Pneumonia: Is *Legionella pneumophila* a significant pathogen?”

Research Proposal: Investigator Initiated

Funding Source: Hoechst-Roussel Pharmaceuticals, Inc. (\$3,000)

Role: Principal Investigator (1990-1991)

8. *Project Title:* “Bactericidal Activity of Imipenem compared to Erythromycin Against Intracellular *Legionella pneumophila*.”

Research Proposal: Investigator Initiated

Funding Source: Merck Sharp & Dohme, Inc. (\$1,200)

Role: Principal Investigator (1991)

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9. *Project Title:* “Activity of Ampicillin/Sulbactam Against 100 Respiratory Tract Isolates From Patients With Community-Acquired Pneumonia.”

Research Proposal: Investigator Initiated

Funding Source: Pfizer Pharmaceuticals (\$2,500)

Role: Principal Investigator (1991)

10. *Project Title:* “Switch Therapy in Hospitalized Patients with Infections: Cost Effectiveness Analysis.”

Research Proposal: Investigator Initiated

Funding Source: Lederle Laboratories (\$4,000)

Role: Principal Investigator (1991-1992)

11. *Project Title:* “Switch Therapy in Hospitalized Patients with Infections: Clinical and Social Outcomes.”

Research Proposal: Investigator Initiated

Funding Source: Miles Company (\$3,500)

Role: Principal Investigator 1991-1992)

12. *Project Title:* “Characterization of *Legionella pneumophila* Replication in Human Pulmonary and Umbilical Endothelial Cells.”

Research Proposal: Investigator Initiated
Funding Source: Abbott Laboratories (\$3,500)
Role: Co-Investigator (1992)

13. *Project Title:* “In Vitro Susceptibility Testing of 500 Isolates from Patients at Risk of Hospital-Acquired Pneumonia.”

Research Proposal: Investigator Initiated
Funding Source: SmithKline Beecham Pharmaceuticals (\$7,500)
Role: Principal Investigator (1992)

14. *Project Title:* “Cost-effectiveness of Legionella Urinary Antigen as Screening Test for Legionella Infections in Immunocompromised-compromised Patients.”

Research Proposal: Investigator Initiated
Funding Source: Alliant Community Trust (\$4,000)
Role: Principal Investigator (1992)

15. *Project Title:* “Comparative Trial of Ampicillin/Sulbactam versus Ceftriaxone for the initial empirical therapy of Community-Acquired Pneumonia.”

Research Proposal: Investigator Initiated
Funding Source: Hoffman-LaRoche, Inc. (\$15,000)
Role: Principal Investigator (1991-1992)

16. *Project Title:* “Switch Therapy with Oral Cefixime After a Short Course of IV Third Generation Cephalosporins for the Treatment of Patients with Community-Acquired Pneumonia”

Research Proposal: Investigator Initiated
Funding Source: Lederle Laboratories (\$120,000)
Role: Principal Investigator (1991-1993)

17. *Project Title:* “An Open-Label Multicenter Randomized Study Comparing IV Cefuroxime with IV Cefazolin as Empiric Treatment in Patients with Community-Acquired Pneumonia”

Research Proposal: Industry Initiated

Funding Source: Glaxo, Inc. (\$35,000)
Role: Principal Investigator (1991-1992)

18. *Project Title:* “Azithromycin Respiratory Infection Study”

Research Proposal: Investigator Initiated
Funding Source: Pfizer Labs Division (\$5,000)
Role: Principal Investigator (1991-1993)

19. *Project Title:* “Cefizoxime 1 Gram Every 12 Hours for the Treatment of Community Acquired Pneumonia”

Research Proposal: Industry Initiated
Funding Source: Fujisawa, Inc. (\$30,000)
Role: Principal Investigator (1992-1993)

20. *Project Title:* “A Randomized, Comparative Trial of Aztreonam plus Cefazolin versus Ceftazidime in the Treatment of Nosocomial Pneumonia”

Research Proposal: Industry Initiated
Funding Source: Bristol-Myers Squibb (\$30,000)
Role: Principal Investigator (1992-1993)

21. *Project Title:* “Clinical Outcome of Patients with Community-Acquired Pneumonia Treated with a Regimen of Cefotaxime tid vs bid”

Research Proposal: Industry Initiated
Funding Source: Hoechst-Roussel Pharmaceuticals (\$92,400)
Role: Co-Investigator (1992-1993)

22. *Project Title:* “Diagnosis of *Mycoplasma pneumoniae* infections by the polymerases chain reaction.”
Research Proposal: Investigator Initiated
Funding Source: Alliant Community Trust Fund (\$21,260)
Role: Principal Investigator (1992)
23. *Project Title:* “Prospective Study on Intravenous Ciprofloxacin Monotherapy or Combination Therapy in the Treatment of Serious Infections”
Research Proposal: Industry Initiated
Funding Source: Miles Pharmaceutical (\$108,000)
Role: Principal Investigator (1993-1994)
24. *Project Title:* “Diagnosis and Prevalence of *Chlamydia pneumoniae* Infections” *Research Proposal:* Investigator Initiated
Funding Source: Alliant Community Trust Fund, University of Louisville (\$44,784) *Role:* Principal Investigator (1993)
25. *Project Title:* “Clinafloxacin versus Ceftazidime for the Treatment of Nosocomial Pneumonia”
Research Proposal: Industry Initiated
Funding Source: Parke Davis Laboratories (\$10,500)
Role: Principal Investigator (1993-1997)
26. *Project Title:* “Treatment of Patients with Community-Acquired Pneumonia Requiring Hospitalization with a Short Course of Intravenous Antibiotics and Switch Therapy to Oral Clarithromycin”
Research Proposal: Investigator Initiated
Funding Source: Abbott Laboratories (\$100,000)
Role: Principal Investigator (1993-1994)
27. *Project Title:* “Replication of *Chlamydia* species in cells associated with atherosclerosis”
Research Proposal: Investigator Initiated
Funding Source: Alliant Community Trust Fund, University of Louisville (\$9,667) *Role:* Principal Investigator (1994)
28. *Project Title:* “Empiric Therapy of Febrile Neutropenic Cancer Patients with Clinafloxacin”
Research Proposal: Industry Initiated
Funding Source: Parke Davis Pharmaceuticals (\$14,000)
Role: Principal Investigator (1994-1996)
29. *Project Title:* “Incidence of Atypical Pathogens in Hospitalized Patients with Community-Acquired Pneumonia”
Research Proposal: Investigator Initiated
Funding Source: Parke Davis Laboratories (\$20,000)
Role: Principal Investigator (1994)
30. *Project Title:* “Secretion of chemoattractants and adhesion molecules by human endothelial cells infected with *Chlamydia pneumoniae*”
Research Proposal: Investigator Initiated
Funding Source: Jewish Hospital Heart and Lung Institute, UofL (\$7,346) *Role:* Principal Investigator (1994)
31. *Project Title:* “Is *Chlamydia pneumoniae* present in the Coronary Atheroma of Patients with Coronary Artery Disease?”
Research Proposal: Investigator Initiated

Funding Source: Jewish Hospital Heart and Lung Institute, University of Louisville (\$6,530)
Role: Principal Investigator (1994)

32. *Project Title:* “Intravenous to Oral Azithromycin in Patients Hospitalized with Community-Acquired Pneumonia”

Research Proposal: Investigator Initiated
Funding Source: Pfizer Pharmaceuticals (\$21,800)
Role: Principal Investigator (1994-1995)

33. *Project Title:* “Interaction of *Chlamydia pneumoniae* with Cells Associated with Atherosclerosis.”

Research Proposal: Investigator Initiated
Funding Source: American Heart Association (\$29,720)
Role: Co-Investigator (1994)

34. *Project Title:* “Pharmacoeconomic Evaluation of a Critical Pathway for the Management of Patients with Community-Acquired Pneumonia”

Research Proposal: Investigator Initiated
Funding Source: SmithKline Beecham Pharmaceuticals (\$173,000)
Role: Principal Investigator (1995-1997)

35. *Project Title:* “Presence of *Chlamydia pneumoniae* in the Coronary Atheroma of Patients with Coronary Artery Disease”

Research Proposal: Investigator Initiated
Funding Source: University of Louisville (\$19,600)
Role: Co-Investigator (1995)

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36. *Project Title:* “Ciprofloxacin Monotherapy/Combination Therapy for Treatment of Patients with Severe Sepsis”

Research Proposal: Industry Initiated
Funding Source: Miles Pharmaceuticals (\$29,200)
Role: Principal Investigator (1996-1997)

37. *Project Title:* “Filgrastim vs Placebo in Combination with Standard Antibiotic Therapy in the Treatment of Patients with Multi-lobar Pneumonia”

Research Proposal: Industry Initiated
Funding Source: Amgen (\$9,000)
Role: Principal Investigator (1996-1999)

38. *Project Title:* “Prospective, Non-Blinded, Randomized, Multi-Center Clinical Trial of the Efficacy, Safety, and Economic Impact of Empiric Ciprofloxacin (IV to PO) in Combination with Other Antibacterial Agents Compared with a Standard, Empiric, Intravenous Combination with Other Antibiotic Regimens for the Treatment of Patients with Pneumonia”

Research Proposal: Industry Initiated
Funding Source: Bayer Pharmaceuticals (\$76,440)
Role: Principal Investigator (1996-1998)

39. *Project Title:* “Clinafloxacin vs. Piperacillin-Tazobactam in the Treatment of Complicated Skin and Soft Tissue Infections”

Research Proposal: Industry Initiated
Funding Source: Parke-Davis (\$4,000)
Role: Principal Investigator (1996-1997)

40. *Project Title:* “Sparfloxacin in the Treatment of Community-Acquired Pneumonia in the Outpatient Setting”

Research Proposal: Industry Initiated

Funding Source: Concepts in Pharmaceutical Research (\$23,800)

Role: Principal Investigator (1996-1997)

41. *Project Title:* “Clinafloxacin vs Ceftriaxone in the Treatment of Hospitalized Patients with Community-Acquired Pneumonia”.

Research Proposal: Industry Initiated

Funding Source: Parke Davis Pharmaceuticals (\$153,000)

Role: Principal Investigator (1996-1998)

42. *Project Title:* “Switch Therapy to Oral Cefuroxime Axetil after a Short Course of IV Cefuroxime for the Treatment of Hospitalized Patients with Community Acquired Pneumonia”.

Research Proposal: Investigator Initiated

Funding Source: GlaxoWellcome Pharmaceuticals (\$85,500)

Role: Principal Investigator (1996-1998)

43. *Project Title:* “L-749,345 vs. Ceftriaxone in the Treatment of Serious, Uncomplicated Lower Respiratory Tract Infections of Mild to Moderate Severity in Adults.”

Research Proposal: Industry Initiated

Funding Source: Merck Pharmaceuticals (\$5,975)

Role: Principal Investigator (1996-1997)

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44. *Project Title:* “A Randomized, Double-Blind, Multi-Center, Comparative Study of Oral Gatifloxacin vs Trovafloxacin in the Treatment of Community-Acquired Pneumonia. AI420-067-012”

Research Proposal: Industry Initiated

Funding Source: Bristol-Myers Squibb (\$9,550)

Role: Principal Investigator (1996-1997)

45. *Project Title:* “Clinafloxacin in the Treatment of Endocarditis 960-017-17/96335” *Research Proposal:* Industry Initiated

Funding Source: Parke Davis Pharmaceuticals (\$4,000)

Role: Principal Investigator (1997-1998)

46. *Project Title:* “Lamsil/Aspergillosis Study SFS 203-57”

Research Proposal: Industry Initiated

Funding Source: Novartis Pharmaceuticals (\$1,858)

Role: Principal Investigator (1997-1998)

47. *Project Title:* “Treatment of Nosocomial Pneumonia: Meropenem versus Imipenem” *Research Proposal:* Industry Initiated

Funding Source: Zeneca Pharmaceuticals (\$29,802)

Role: Principal Investigator (1998-2000)

48. *Project Title:* “Community-Acquired Pneumonia study number 3591US/0022:0055” *Research Proposal:* Industry Initiated

Funding Source: AstraZeneca Pharmaceuticals (\$40,087)

Role: Principal Investigator (1998-2000)

49. *Project Title:* “An Open-Label, Multicenter, Non-Comparative Phase II/III Study of Oral Gatifloxacin in the Treatment of Community-Acquired Bacterial Pneumonia”

Research Proposal: Industry Initiated

Funding Source: Bristol-Myers Squibb Pharmaceuticals (\$8,542)

Role: Principal Investigator (1998-1999)

50. *Project Title:* “Prospective, Randomized, Double-Blind Comparison of the Safety and Efficacy of Oral Bay 12-8039 400mg QD versus Oral Cephalexin 500mg TID for the Treatment of Patients with Mild to Moderate Acute Uncomplicated Skin and Superficial Skin Structure Infection”

Research Proposal: Industry Initiated

Funding Source: Bayer Pharmaceuticals (\$2,000)

Role: Principal Investigator (1998-1999)

51. *Project Title:* “MK-0826 vs Ceftriaxone sodium in the Treatment of Serious CAP in Adults”

Research Proposal: Industry Initiated

Funding Source: Merck Pharmaceuticals (\$7,560)

Role: Principal Investigator (1998-1999)

52. *Project Title:* “In vitro comparison on the activity of Linezolid and Erythromycin against intracellular Legionella spp. using the human monocyte cell line RL-60”

Research Proposal: Investigator Initiated

Funding Source: Pharmacia & Upjohn Pharmaceuticals (\$9,471)

Role: Principal Investigator (1998-2000)

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53. *Project Title:* “TAP 9801-protocol #CEF-97-009”

Research Proposal: Industry Initiated

Funding Source: Tap Holdings, Inc. (\$14,069)

Role: Principal Investigator (1998-1999)

54. *Project Title:* “Serious CAP. Protocol CAPSS-018”

Research Proposal: Industry Initiated

Funding Source: Ortho-McNeil Pharmaceuticals (\$8,128)

Role: Principal Investigator (1998-1999)

55. *Project Title:* “Gatifloxacin versus Clarithromycin Outpatient CAP Study “ *Research Proposal:* Industry Initiated

Funding Source: Bristol-Myers Squibb Pharmaceuticals (\$15,000)

Role: Principal Investigator (1999)

56. *Project Title:* “A Multicenter, Open-Label, Randomized Study to Compare the Safety and Efficacy of IV Daptomycin with that of Vancomycin in a Semi Synthetic Penicillin in the Treatment of Bacteremic Infections Due to Gram-Positive Bacteria. Protocol DAP-BAC-9803”

Research Proposal: Industry Initiated

Funding Source: Advanced Biologics (\$17,750)

Role: Principal Investigator (1999-2001)

57. *Project Title:* “A Randomized, Double-Blind, Multicenter, Comparative Study of Gatifloxacin versus Azithromycin in the Treatment of Acute Exacerbation of Chronic Bronchitis AI420-065-024”

Research Proposal: Industry Initiated

Funding Source: Bristol-Myers Squibb Pharmaceuticals (\$6,998)

Role: Principal Investigator (1999-2000)

58. *Project Title:* “Outpatient CAP Study AI420-067”

Research Proposal: Industry Initiated

Funding Source: Bristol-Myers Squibb Pharmaceuticals (\$3,500)

Role: Principal Investigator (1999-2000)

59. *Project Title:* “Prospective Clinical Trial of Intravenous Ceftriaxone plus Oral Clarithromycin versus IV Levofloxacin plus oral placebo for Initial Empiric Therapy of Hospitalized patients with Community-Acquired Pneumonia”

Research Proposal: Industry Initiated

Funding Source: Abbott Laboratories (\$143,950)

Role: Principal Investigator (1999-2002)

60. *Project Title:* “A Randomized, Double-Blind, Multi-Center, comparative Phase III Study of Oral BMS-284756 vs Oral Clarithromycin in the Treatment of Community-Acquired Pneumonia AI464-029”

Research Proposal: Industry Initiated

Funding Source: Bristol-Myers Squibb (\$1,950)

Role: Principal Investigator (2000-2001)

61. *Project Title:* “Community-Acquired Pneumonia Organization (CAPO). An international organization to foster research collaboration in CAP”

Research Proposal: Investigator Initiated

Funding Source: Bristol-Myers Squibb, Pfizer, Abbott, Ortho-McNeil, GlaxoSmithKline

(\$200,000)

Role: Principal Investigator (2000-present)

62. *Project Title:* “Proteomic Analysis of Persistent Chlamydia Pneumoniae” *Research*

Proposal: Investigator Initiated

Funding Source: National Institutes of Health, National Heart, Lung, and Blood Institute (\$750,000)

Role: Co-Investigator (2001-2004)

63. *Project Title:* “A Randomized, Double-blind, Double-dummy, Phase III, Comparative Study of Cidecin (Daptomycin) and Zyvox (Linezolid) in the Treatment of Hospitalized Adults with Suspected Vancomycin-Resistant Enterococcal Infections. DAP-VRE-00-07”

Research Proposal: Industry Initiated

Funding Source: Cubist Pharmaceuticals (\$11,000)

Role: Principal Investigator (2002-2003)

64. *Project Title:* “The Role of Pneumococcal Urinary Antigen Testing in the Treatment of Patient with Community-Acquired Pneumonia (SpUA in CAP)”

Research Proposal: Industry Initiated

Funding Source: Binax (\$5,000)

Role: Principal Investigator (2003)

65. *Project Title:* “A Phase 3, Multicenter, Randomized, Open-Label, Comparative Study to Assess the Safety and Efficacy of Daptomycin Compared to Conventional Therapy in the Treatment of Subjects with Infective Endocarditis or Bacteremia Due to Staphylococcus aureus. Protocol DAP-IE-01-02”

Research Proposal: Industry Initiated

Funding Source: Cubist Pharmaceuticals (\$11,000)

Role: Principal Investigator (2004-2005)

66. *Project Title:* “Prospective, International, Randomized Clinical Trial to Define what Empiric Antibiotic Regimen (Monotherapy with Moxifloxacin versus Combination Therapy with Ceftriaxone or Cefotaxime plus Clarithromycin, Azithromycin, or Erythromycin) is Associated with Better Outcomes in Hospitalized Patients with Community-Acquired Pneumonia.

Protocol CAPO202”

Research Proposal: Industry Initiated

Funding Source: Schering Plough (\$393,960)

Role: Principal Investigator (2004-2007)

67. *Project Title:* "A Randomized, Double-Blind Study of GT267-004 versus Vancomycin, and GT267-004 versus Metronidazole, in Patients with *C. difficile* Associated Diarrhea"

Research Proposal: Industry Initiated

Funding Source: Genzyme (\$6,000)

Role: Sub-Investigator (2005-2007)

68. *Project Title:* "A Phase 3 Randomized, Double-Blind Study of Ceftobiprole Medocaril versus Linezolid plus Ceftazidime in the Treatment of Nosocomial Pneumonia"

Research Proposal: Industry Initiated

Funding Source: Johnson & Johnson (\$10,000)

Role: Sub-Investigator (2006-2008)

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69. *Project Title:* "Improving Medicine through Pathway Assessment of Critical Therapy in Hospital-Acquired Pneumonia (IMPACT HAP). Multicenter, Retrospective, Observational Study to Evaluate Current Management of Patients with Hospital-Acquired Pneumonia"

Research Proposal: Investigator Initiated

Funding Source: Pfizer (\$667,000)

Role: Principal Investigator (2006-present)

70. *Project Title:* "Retrospective, Observational Study to Evaluate the Correlation of Inflammatory Markers with Clinical Outcomes in Patients with Osteomyelitis"

Research Proposal: Investigator Initiated

Funding Source: Unfunded

Role: Co-Investigator (2008-present)

71. *Project Title:* "Influence of Vancomycin MICs and SCCmec type on the Clinical Outcomes of Patients with Methicillin Resistant *Staphylococcus aureus* Osteomyelitis"

Research Proposal: Investigator Initiated

Funding Source: Cubist Pharmaceuticals (\$29,880)

Role: Principal Investigator (2008-present)

72. *Project Title:* "Severe Influenza Pneumonia Surveillance (SIPS) Network" *Research Proposal:* Investigator Initiated

Funding Source: The National Institute for Hometown Security (Somerset, KY) (\$582,936) *Role:* Principal Investigator (2008-2012)

73. *Project Title:* "Linezolid in the Treatment of Subjects with Nosocomial Pneumonia proven to be Methicillin-Resistant *Staphylococcus aureus*"

Research Proposal: Industry Initiated

Funding Source: Pfizer Pharmaceuticals (\$208,532)

Role: Principal Investigator (2008-2010)

74. *Project Title:* "Prospective Observational Study of Nosocomial *Clostridium difficile* Toxin Antibody Concentrations, Incidence and recurrence"

Research Proposal: Industry Initiated

Funding Source: Merck Pharmaceuticals (\$49,782)

Role: Principal Investigator (2009-2011)

75. *Project Title:* “Anti-Influenza Therapy in Hospitalized Patients with Community Acquired Pneumonia”

Research Proposal: Investigator Initiated

Funding Source: Centers for Diseases Control and Prevention (\$1,649,379) *Role:* Principal Investigator (2010-present)

76. *Project Title:* “Ryan White HIV/AIDS Grant” (Part C & Part D) *Research*

Proposal: Investigator Initiated

Funding Source: Health Resources and Services Administration, HIV/AIDS Bureau (\$928,627)

Role: Principal Investigator (2009-2011)

77. *Project Title:* “Ryan White HIV/AIDS Grant” (Part C & Part D) *Research*

Proposal: Investigator Initiated

Funding Source: Health Resources and Services Administration, HIV/AIDS Bureau

(\$928,627)

Role: Co-Investigator (2012-2014)

78. *Project Title:* “The Role of Alcohol in HIV Therapy Hepatotoxicity” *Research*

Proposal: Investigator Initiated

Funding Source: National Institutes of Health (R01) (\$1,850,000)

Role: Co-Investigator (2009-2013)

79. *Project Title:* “Microbiology Testing With the Aim of Directed Antimicrobial Therapy for Community-Acquired Pneumonia/DMID Protocol 10- 0061”

Research Proposal: Investigator Initiated

Funding Source: NIAID-Division of Microbiology and Infectious Diseases (\$2,727,706) *Role:* Site Principal Investigator (2012-2013)

80. *Project Title:* “The Impact of Oxidative Stress on HIV-induced Lung Disease” *Research*

Proposal: Investigator Initiated

Funding Source: National Institutes for Health (NIH) (\$870,395)

Role: Principal Investigator (2013-2018)

81. *Project Title:* “Population-Based Study to Define the Clinical & Economic Burden of Pneumococcal Pneumonia in Hospitalized Adults in Jefferson County, Kentucky”

Research Proposal: Investigator Initiated

Funding Source: Pfizer Pharmaceuticals (\$350,880)

Role: Principal Investigator (2014-2015)

82. *Project Title:* “Streptococcus Pneumoniae Serotypes in Adults 18 Years and older with Radiographically-Confirmed Community-Acquired Pneumonia Kentucky”

Research Proposal: Industry Initiated

Funding Source: Pfizer Pharmaceuticals (\$9,500,000)

Role: Principal Investigator (2014-2018)

83. *Project Title:* “A Phase 3b, Randomized, Double-Blind Switch Study to Evaluate F/TAF in HIV-1 Infected Subjects who are Virologically Suppressed on Regimens containing ABC/3TC”

Research Proposal: Industry Initiated

Funding Source: Gilead Sciences, Inc. (\$404,168)

Role: Principal Investigator (2015-2020)

84. *Project Title:* “The Role of Nutrition in the Development/Progression of Alcohol- Induced Organ Injury. Sub-study of: SAM Deficiency Mediated Epigenetic Mechanisms in Alcohol Induced Immunosuppression.”

Research Proposal: Investigator Initiated
Funding Source: National Institutes of Health (\$1,201,620)
Role: Co-Investigator (2015-2021)

85. *Project Title:* “A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Switching from a Regimen of Dolutegravir and ABC/3TC, or a Fixed Dose Combination (FDC) of ABC/DTG/3TC to a FDC of GS 9883/F/TAF in HIV-1 Infected Subjects who are Virologically Suppressed”

Research Proposal: Industry Initiated

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Funding Source: Gilead Sciences, Inc. (\$175,979)
Role: Principal Investigator (2016-2021)

86. *Project Title:* “An Open-Label, Non-Randomized Single-Arm Staphylococcal Bone or Joint Infections in Subjects for whom Chronic Antibiotic Suppressive Therapy is Indicated”

Research Proposal: Industry Initiated
Funding Source: Covance (\$177,000)
Role: Principal Investigator (2016-2021)

87. *Project Title:* “A Phase-3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of GS-9883/Emtricitabine/Tenofovir Alafenamide Versus Dolutegravir + Emtricitabine/Tenofovir Alafenamide in HIV-1 Infected, Antiretroviral Treatment –Naïve Adults”

Research Proposal: Industry Initiated
Funding Source: Gilead Sciences, Inc. (\$230,090)
Role: Principal Investigator (2016-2021)

88. *Project Title:* “A Phase 3, Randomized, Open-Label Study to Evaluate the Safety and Efficacy of Switching from Regimens Consisting of Boosted Atazanavir or Darunavir plus either Emtricitabine/tenofovir or Abacavir/Lamivudine to GS-9883/Emtricitabine/tenofovir Alafenamide in Virologically Suppressed HIV-1 Infected Adults”

Research Proposal: Industry Initiated
Funding Source: Gilead Sciences, Inc. (\$142,456)
Role: Principal Investigator (2016-2021)

89. *Project Title:* “Clinical & Economic Burden in Hospitalized Adults with Pneumococcal Pneumonia in Louisville, Kentucky: Incidence Study (HAPPI)” *Research Proposal:* Investigator Initiated

Funding Source: Pfizer Pharmaceuticals (\$3,615,217)
Role: Principal Investigator (2016-2018)

90. *Project Title:* “A Phase 3, Randomized, Double-Blind Study to Evaluate the Safety and Efficacy of Switching from a Regimen of Dolutegravir and Either Emtricitabine/Tenofovir Alafenamide or Emtricitabine/Tenofovir

Disoproxil Fumarate to a Fixed Dose Combination of Bictegravir/Emtricitabine/Tenofovir Alafenamide in HIV-1 Infected Subjects who are Virologically Suppressed”
Research Proposal: Industry Initiated
Funding Source: Gilead Sciences, Inc. (\$250,000)
Role: Principal Investigator (2017-2022)

91. *Project Title:* “Expanded Access IND Program (EAP) to Provide Stamaril Vaccine to Persons in the United States for Vaccination Against Yellow Fever” *Research Proposal:* Industry Initiated

Funding Source: Sanofi Pasteur (\$150,192)
Role: Principal Investigator (2017-2018)

92. *Project Title:* “Clinical and Translational Research in Pneumonia: Defining a Research Agenda for

Today and Tomorrow”

Research Proposal: Investigator Initiated

Funding Source: National Institutes of Health (\$5,000)

Role: Principal Investigator (2017-2018)

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93. *Project Title:* “Burden of Hospitalized Adults with Group B Streptococcal (*Streptococcus agalactiae*) Infections in Louisville, Kentucky (BASIL)” *Research Proposal:* Industry Initiated
Funding Source: Pfizer Pharmaceuticals (\$250,000)
Role: Principal Investigator (2017-2018)
94. *Project Title:* “Role of Gut Microbial Dysbiosis and Aging on HIV-associated neurocognitive and brain dysfunction”
Research Proposal: Investigator Initiated
Funding Source: National Institutes of Health (\$779,748)
Role: Co-Investigator (2018-2023)
95. *Project Title:* “Diarrhea Burden in Adults in the United States attributable to *Clostridioides Difficile*: An Active Surveillance Study” *Research Proposal:* Industry Initiated
Funding Source: Pfizer Pharmaceuticals (\$6,500,000)
Role: Principal Investigator (2019-2020)
96. *Project Title:* “Serotype Distribution of Streptococcus Pneumonia in Hospitalized Adults ≥ 18 Years of Age in the United States”
Research Proposal: Industry Initiated
Funding Source: Pfizer Pharmaceuticals (\$4,500,000)
Role: Principal Investigator (2019-2021)
97. *Project Title:* “Louisville Coronavirus Surveillance Program”
Research Proposal: Investigator Initiated
Funding Source: University of Louisville President’s Office (\$500,000)
Role: Principal Investigator (2020)
98. *Project Title:* “Defining the Burden of COVID-19 in the Kentuckiana Area: Incidence, Epidemiology & Clinical Outcomes of Patients with COVID-19” *Research Proposal:* Investigator Initiated
Funding Source: Pfizer Pharmaceuticals (\$100,000)
Role: Principal Investigator (2020-2021)
99. *Project Title:* “Ryan White HIV/AIDS Grant” (Part C & Part D) *Research Proposal:* Investigator Initiated
Funding Source: Health Resources and Services Administration, HIV/AIDS Bureau (\$1,109,432)
Role: Principal Investigator (2020-2022)
100. *Project Title:* “A Study of LY3819253 (LY-CoV555) in Preventing SARS-CoV-2 Infection and COVID-19 in Nursing Home Residents and Staff (BLAZE-2)”
Research Proposal: NIH Initiated (Operation Warp Speed)
Funding Source: National Institute of Allergy and Infectious Diseases (NIH) and Eli Lilly (\$700,000)
Role: Principal Investigator (2021-2022)
101. *Project Title:* “A Study of Ad26.COV2.S for the Prevention of SARS-CoV-2-Mediated COVID-19 in Adult Participants (ENSEMBLE)”
Research Proposal: NIH Initiated (Operation Warp Speed)
Funding Source: National Institute of Allergy and Infectious Diseases (NIH) and Janssen

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Vaccine & Prevention B.V. (\$582,125)
Role: Principal Investigator (2021-2022)

102. *Project Title:* “ACTIV-5/Big Effect Trial (BET-B) for the Treatment of COVID-19 *Research*
Proposal: NIH Initiated (Operation Warp Speed)
Funding Source: National Institute of Allergy and Infectious Diseases (NIH) *Role:*
Principal Investigator (2021-2022)

PUBLICATIONS (Peer Review Journals)

1. Raff M, **Ramirez J**. Lower Respiratory Tract Infections: A Brief Review. *Infect Med*. 1991;8:45–8.
2. Summersgill JT, Powell LA, Buster BL, Miller RD, **Ramirez JA**. Killing of *Legionella pneumophila* by nitric oxide in γ -interferon-activated macrophages. *J Leukoc Biol*. 1992 Dec;52(6):625–9
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6. **Ramirez JA**, Anderson P, Herp S, Raff MJ. Increased rate of tuberculin skin test conversion among workers at a university hospital. *Infect Control Hosp Epidemiol*. 1992 Oct;13(10):579– 81.
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10. **Ramirez JA**. The choice of empirical antibiotic therapy for nosocomial pneumonia. *J Chemother*. 1994 Apr;6 Suppl 2:47–50 PMID:7799054
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[https://doi.org/10.1016/S0011-393X\(05\)80724-6](https://doi.org/10.1016/S0011-393X(05)80724-6).
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