# CURRICULUM VITAE

NAME: Peter James Krause, M.D

 Room 730 (lab 709)

 Yale School of Public Health

 60 College Street

 New Haven, CT 06520

EDUCATION

B.A Biology, Williams College, Williamstown, MA, 1967

M.D. Tufts University School of Medicine, Boston, MA, 1971

Internship Pediatrics, Yale-New Haven Hospital, New Haven, CT, 1971-72

Residency Pediatrics, Yale-New Haven Hospital, New Haven, CT, 1972-73

 Pediatrics, Stanford University Medical Center, Palo Alto, CA, 1973-74

Fellowship Research Fellow in Pediatric Infectious Diseases, U.C.L.A. School of Medicine,

 Los Angeles, CA, 1976-79

CAREEER/ACADEMIC APPOINTMENTS

1974-76 Pediatrician, U.S. Army, Bad Kreuznach, West Germany - Honorable Discharge

1979-81 Attending Physician - Pediatric Infectious Diseases, Pediatric Ambulatory Services Department of Pediatrics, Hartford Hospital, Hartford, CT

1979-84 Assistant Professor of Pediatrics, University of Connecticut School of Medicine

 Farmington, CT

1982-1996 Director, Division Pediatric Infectious Diseases, Department of Pediatrics, Hartford Hospital, Hartford, CT

1985-1991 Associate Professor of Pediatrics, University of Connecticut School of Medicine

1991-2008 Professor of Pediatrics, University of Connecticut School of Medicine

1996-1998 Director, Pediatric AIDS Program, Connecticut Children’s Medical Center,

 Hartford, CT

1999-2008 Director, Pediatric Infectious Diseases, University of Connecticut School of Medicine

2008-2009 Associate Research Scientist, Yale University School of Public Health, New Haven,

 CT

2009-present Senior Research Scientist, Yale University School of Public Health, Yale School of

 Medicine, New Haven, CT

ADMINISTRATIVE POSTITIONS

1998-2008 Director, Division of Infectious Diseases

 Director, Infection Control Program, Department of Pediatrics, Connecticut

 Children's Medical Center, University of Connecticut School of Medicine, Hartford, CT

PROFESSIONAL HONORS & RECOGNITION

1967 B.A. with Honors in Biology, Williams College, Williamstown, MA

1977-79 N.I.H. National Research Service Award for Individual Postdoctoral Fellows

1987 Named a Fellow in the Infectious Diseases Society of America

1991 Camel Teaching Award, The University of Connecticut School of Medicine

1991-1999 Editorial Board, Journal of Clinical Microbiology

1991-1994 Member, Subcommittee on Quality Standards for Infectious Diseases, Infectious Disease Society of America

1992-2008 Cited in American Men and Women of Science, 18-20th editions

 Cited in Who’s Who in Science and Engineering, 1st-6th editions

 Cited in Who’s Who in the East, 26th Edition

 Cited in Who’s Who in Medicine and Health Care, 00-07

 Cited in Who’s Who in America, 01-14

 Cited in Who’s Who in the World, 01-02

 Cited in Guide to America’s Top Physicians 04-05, Consumers” Research Council of America

1994-1998 Member, Infectious Disease Society of America Practice Guidelines Committee

1995, 1997, 1999 George F. Thornton Award- Connecticut Infectious Diseases Society

 (best presentation in clinical infectious diseases at annual meeting)

1996-2007 Listed in The Best Doctors in America Database

1996-1999 Member, Council of the Connecticut Infectious Diseases Society

2000 Guest Editor, Seminars in Pediatric Infectious Diseases

2002-04 Cited in Guide to America’s Top Pediatricians, Consumer Research Council of America

2003 University of Connecticut School of Medicine Pediatric Spot Award

2004-2007 Listed in Best Doctors in Hartford, Hartford magazine

2006 Member, Infectious Diseases Society of America Practice Guidelines for the

 Treatment of Lyme Disease, Human Granulocytic Anaplasmosis, and Babesiosis

2007 Appointed to the Board of Directors of the American Lyme Disease Foundation

2008 Appointed to the Advisory Board of the University of Rhode Island Partnership in International Research and Education

2009 Co-chair for *Babesia* symposium at American Society of Tropical Medicine and Hygiene, Washington, DC 11/22/09

2010 Invited speaker: The Increasing Health Burden of Human Babesiosis. Critical Needs and Gaps in Understanding Prevention, Amelioration, and Resolution of Lyme and Other Tick-Borne Diseases. Institute of Medicine, National Academy of Sciences, Washington DC, 10/10/10

2012 Editorial Board of International Scholarly Research Network (ISRN) Parasitology

2012 Symposium Organizer “Emerging Deer Tick Borne Diseases” American Society of Tropical Medicine and Hygiene, 61st Annual Meeting, Atlanta, Georgia

2013 Program Committee and Session Chair 13th International Lyme disease and Associated Tick Borne Diseases Meeting Boston

2013 Participant speaker in CDC webinar “Novel and Emerging Tick-Borne diseases: Agents, clinical features, and surveillance” September 18, 2013

2015 Key-note speaker14th International Conference on Lyme Borreliosis, Vienna, Austria, September 27-30,2015.

2016 Co-chair for *Babesia* symposium at American Society of Tropical Medicine and Hygiene, Atlanta, GA 11/15/16

2016 Named a Fellow American Society of Tropical Medicine and Hygiene

2017 Guest Editor, PLOS Neglected Tropical Diseases

2017 Guest Editor, PLOS Pathogens

2017 National Cancer Institute Patient Advocate Steering Committee Member- Head and Neck Cancer and Internal Advisory Board of the Yale Head and Neck

 SPORE (Specialized Program of Research Excellence)

2018 Associate Editor, PLOS Neglected Tropical Diseases

2019 Editorial Board, Pathogens

2020 Editorial Advisory Board, Clinical Infectious Diseases

2020 Deputy Editor, PLOS Neglected Tropical Diseases

2020 Chair, Committee on the Clinical Practice Guidelines by the Infectious Diseases Society of America (IDSA): 2020 Guideline on Diagnosis and Management of Babesiosis

2020 Member, Committee on the Clinical Practice Guidelines by the Infectious Diseases Society of America (IDSA), American Academy of Neurology (AAN), and American College of Rheumatology (ACR): 2020 Guidelines for the Prevention, Diagnosis and Treatment of Lyme Disease

2021 Speaker in IDSA Podcast “Guideline Update: 2020 Guideline on Diagnosis and Management of Babesiosis” <https://player.fm/series/infectious-diseases-society-of-america/idsa-babesiosis-guideline>”, January 15, 2021

2021 Editorial Board, Clinical Microbiology Reviews

2021 Member, Health and Human Services Office of the Assistant Secretary of Health

Tick Borne Disease Working Group 2021-2022, subcommittee on Disease Prevention and Treatment [https://www.hhs.gov/ash/advisory-committees/tickbornedisease/members/index.html](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.hhs.gov%2Fash%2Fadvisory-committees%2Ftickbornedisease%2Fmembers%2Findex.html&data=04%7C01%7Cpeter.krause%40yale.edu%7C011173c821404904fb4008d977e476f0%7Cdd8cbebb21394df8b4114e3e87abeb5c%7C0%7C0%7C637672645398414216%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=8N%2FlK5WG%2BfBSN%2BMRXlZLieGWttK9pP5pCn06gNIxog8%3D&reserved=0)

2022 Epidemiology subcommittee 16th International Conference on Lyme Borreliosis and other Tick-borne diseases (ICLB), Amsterdam The Netherlands September 4-7, 2022

2022 Academic Editor, PLOS Neglected Tropical Diseases

LICENSURE

1973-79 California

1971-73 Connecticut

1979-Present Connecticut

1995-Present Rhode Island

SPECIALTY BOARDS

1974 American Academy of Pediatrics Written Boards

1977 American Academy of Pediatrics Oral Boards

1994-2001 American Board of Pediatrics Pediatric Infectious Diseases Boards

2001-2008 American Board of Pediatrics Pediatric Infectious Diseases Boards (renewal)

2008-2015 American Board of Pediatrics Pediatric Infectious Diseases Boards (renewal)

PROFESSIONAL SOCIETIES

1977 American Academy of Pediatrics

1977 American Society of Microbiology

1978 Pediatric Infectious Diseases Society

1984 Infectious Diseases Society of America (Fellow, 1987)

1985 Infectious Diseases Society of Connecticut

1985 American Federation of Clinical Research

1986 Society for Pediatric Research

1986 SIGMA XI (The Scientific Research Society)

1987 American Association for the Advancement of Science

1990 Association of Clinical Scientists

1991 New York Academy of Sciences

1995 American Society of Tropical Medicine & Hygiene (Fellow, 2016)

2001 American Pediatric Society

PATENTS

Enhanced Chemiluminescent enzyme-linked immunosorbent assay for detection of antibodies against *Babesia microti*, for which U.S. Provisional Patent Application No. 62/580,588, was filed on November 2, 2017 with Dr. Sanjai Kumar

GRANT HISTORY

CURRENT GRANTS

**Gordon and Llura Gund Foundation**

Title: Human Tick-borne Diseases

PI: Peter Krause, 0.25 FTE

Dates: 6/1/09-11/31/32

Total award amount: $5,000,000

Description: This study addresses a broad range of research issues related to tick-borne diseases

**Department of Defense**

Title: Development of a subunit vaccine against babesiosis caused by *Babesia microti*

Project Number: TB220063

Level of Effort: Provide 30 *B. microti* antibody positive and 10 *B. microti* negative sera at $200/sample

Performance Period: 9/1/2023-8/31/2026

Supporting Agency: DoD

Supporting Agency POC: Kelly L. McCarty Email: kelly.l.mccarty4.civ@health.mil Phone: 301-619-7788

Krause role: Other significant contributor (Vannier PI)

Description:

 Project Goal: to identify compositions of adjuvanted *Babesia microti* proteins that protect young and aged mice from babesiosis.

 Specific Aims/Tasks: i) to identify *Babesia microti* antigens that are protective immunogens, and ii) to identify vaccine compositions that confer full protection from *Babesia microti*.

**PAST GRANTS**

**Gold Standard Diagnostics (contract)**

PI: Peter J. Krause

Dates: 12/18/19-12/18/22

Total award amount: $30,000

Description: This study addresses a diagnostic laboratory test for *Babesia microti*

**National Institutes of Health (NIAID)**

Title:  An antigen-detection assay to diagnose *Babesia microti* infection

Dates: 1/10/18-12/31/19

Number:  R43 AI136118

PI:  Michel Ledizet, Ph.D.

Dates: Pending activation

Total award amount:  $299,972

Krause role:  Other professional - Senior advisor

Description:  The goal of this project is to develop a highly sensitive method to detect the presence of the parasite *Babesia microti* in human blood.

**National Institutes of Health (NIAID)**

Title: Determining the Health Burden of *Borrelia miyamotoi* with a Next-Gen Diagnostic Assay

Number: 1 R21 AI135799-01

Krause role: Co-principle investigator

PI: Peter Krause, Sukanya Narasimhan

Dates: 9/1/17-8/31/19

Total award amount: $469,106

Description: We shall study develop a novel Borrelia miyamotoi-specific multiplex antibody assay and compare the epidemiology and disease severity of *Borrelia miymotoi* infection and Lyme disease in the northeastern United States.

**National Institutes of Health (NHLBI)**

Title:  Babesia Antigen Detection Assay for Blood Screening

Number: 9R44HL127698-03

PI: Krueger/Andrew Levin

Dates: 04/01/2015 – 03/31/2018

Total award amount: $4,000,017

Krause role: Coinvestigator, 0.125 FTE

Description: This project is aimed at the development of an antigen detection assay for screening blood for *Babesia microti*.

**National Institutes of Health (NIAID)**

Title: A New Cytokine-Based Immunoassay for the Diagnosis of Lyme Disease

Number: R33 AI100191-03

Krause role: coinvestigator, 0.10 FTE

PI: Linda Bockenstedt, M.D.

Dates: 07/01/2014 –6/30/2017

Total Award Amount:  $371,823 directs ($491,700 total)

Description: This study is designed to develop a new cytokine-based immunoassay for the diagnosis of Lyme disease

**National Institutes of Health (NIAID)**

#### Title: Probing the natural diversity of *Babesia microti*

Number: 1 R21 AI09486-01A1 (R21-AI112938)

Krause role: coinvestigator, 0.02 FTE Year 1; 0.36 FTE Year 2

PI: Adalgisa Caccone, Ph.D.

Dates: 8/15-7/17

Total award amount: $400,000

Description: We propose a novel culture-independent method for deriving whole genome sequences for vector-borne and zoonotic pathogens, allowing pathogen genomic variation to be studied directly from tick and human blood samples. Specifically, we will adapt DNA target capture techniques to probe the genomic diversity of *B. microti* in 120 strains sampled directly from field collected I. scapularis ticks, as well as 20 strains from human blood.

**National Institutes of Health (NIAID)**

Title: *Borrelia miyamotoi* Infection in Mice and Humans

Number: [1R56AI114859-01](https://public.era.nih.gov/grantfolder/piAppDetails/genericStatus.do?encryptedParam=h4EU-TrxVLM.Z9LYaPGuKZRuroO4sznvqx31gLIW3GDg1XravD5gfp4.)

Krause role: Co-principle investigator

PI: Linda Bockenstedt, Peter Krause, Alan Barbour

Dates: 9/1/15-8/31/16

Total award amount: $670,392

Description: We shall study the frequency, disease severity, pathogenesis, and diagnosis of *Borrelia miymotoi* infection.

**National Institutes of Health (NIAID)**

Title: Diagnostic Assays for Early Lyme Borreliosis Using In-vivo Expressed Antigens

Number: R44AI096598-01 (SBIR II)

PI: Michel Ledizet, Ph.D.

Dates: 7/1/14-6/30/16

Total award amount: $1,488,868

Krause role: coinvestigator, 0.25 FTE

Description: The goal of this project is to evaluate antibody responses to a novel panel of *B. burgdorferi* antigens in patients with newly diagnosed Lyme disease and determine whether a Luminex assay with these antigens will have improved sensitivity and specificity compared with the current two-tier *B. burgdorferi* antibody approach.

**National Institutes of Health (NIAID)**

Title: A serologic assay to measure successful Lyme borreliosis antibiotic therapy

Number: R44AI085725-01A1 SBIR II

PI: Michel Ledizet, Ph.D.

Dates: 7/1/14-6/30/17

Total award amount: $2,544,024 (requested)

Krause role: coinvestigator, 0.25 FTE

Description: Our intent is to improve the evaluation of patients treated for Lyme disease through new serologic tests that provide an objective laboratory measure for when infection has been cured and which can distinguish a new infection in people with previous exposure.

**National Institutes of Health (NIAID)**

#### Title: Development of novel therapeutics for *Babesia microti* infection

Number: 1 R21 AI09486-01A1

Krause role: coinvestigator, 0.01 FTE

PI: Choukri Ben Mamoun, Ph.D.

Dates: 6/1/14-5/31/16

Total award amount: $400,000

Description: This proposal aims to identify sites of *B. microti* persistence in mice infected with prototype strains isolated from patients with mild or severe disease and use this mouse model of babesiosis to test the efficacy of novel therapeutics that might be effective against human babesiosis.

**National Science Foundation/National Institutes of Health**

Title: Babesiosis Emergence in the United States

Number: 1R01GM105246-01

PI: Maria Diuk Wasser, Ph.D.

Dates: 09/10/2012 - 08/31/2017

Total award amount: $2,106,327

Krause role: coinvestigator, 0.05 FTE

Description: The overall goal is to identify key mechanisms for the spread and establishment of zoonotic foci of *B. microti* in the northeastern US, in order to predict its future geographic distribution and identify optimum prevention strategies.

**National Institutes of Health (NHLBI)**

Title:  Screening and Confirmatory Test for Human Babesia

Number: 268201200067C-0-0-1

PI: Andrew Levin

Dates: 6/31/12 – 3/31/14

Total award amount: $3,667,660

Krause role: coinvestigator, 0.08 FTE

Description: This project is aimed at the development of an enzyme immunoassay (ELISA) for screening blood for antibodies to *Babesia microti*.

**National Institutes of Health (NIAID)**

Title: A New Cytokine-Based Immunoassay for the Diagnosis of Lyme Disease

Number:

Krause role: coinvestigator, 0.10 FTE

PI: Linda Bockenstedt, M.D.

Dates: 06/01/2012 –05/31/2014

Total Award Amount:  $149,171 directs ($262,480 total)

Description: This study is designed to develop a new cytokine-based immunoassay for the diagnosis of Lyme disease

**National Institutes of Health (NIAID)**

Title: The Health Burden of A Recently Discovered Borrelia Spirochete

Number: R21 AI088079

Krause role: co-principal investigator, 0.15 FTE

Co-PIs: Peter J. Krause, M.D. and Durland Fish, Ph.D.

Dates: 9/1/11-8/30/13

Total award amount: $473,782

Description: This study is designed to develop new diagnostic tools for *Borrelia miyamotoi* and determine if human disease caused by this pathogen exists in the United States

**National Institutes of Health (NIAID)**

Title: Xenodiagnosis of Lyme disease

Number: R21 AU082436

Krause role: co-investigator

PI: Linden Hu

Dates: 6/2009-5/2011

Total award amount: $476,495

Description: This study is designed to determine, using xenodiagnosis, whether *B. burgdorferi* persist in people after antibiotic therapy.

**NIH Intramural Bench to Bedside Award**

Title: Searching for Persistence in Lyme Disease

Krause role: co-investigator

PI: Adrianna Marques

Dates: 6/2009-5/2011

Total award amount: $437,944

Description: This study is designed to determine, using xenodiagnosis, whether *B. burgdorferi* persist in people after antibiotic therapy.

**National Institutes of Health (University of Connecticut GCRC grant)**

Title: Recurrent Lyme Disease

Number: M01RR06192

Krause role: co-investigator

PI: Peter J. Krause, Stephan Wikel

Dates: 6/2009-5/2011

Total award amount: $250,000

**National Institutes of Health (University of Connecticut GCRC grant)**

Title: Emerging Health Burden of Human Babesiosis

Number: M01RR006192

Krause role: co-principle investigator

PI: Peter J. Krause, Stephan Wikel

Dates: 6/2003-5/2009

Total award amount: $250,000

**National Institutes of Health (University of Connecticut GCRC grant)**

Title: Health Burden of Coinfecting Deer-Associated Zoonotic CNS Disease

Number: M01RR06192

Krause role: Principle investigator

PI: Peter J. Krause

Dates: 6/1998-5/2003

Total award amount: $250,000

**National Institutes of Health (NIAID)**

Title: Health Burden of Coinfecting Deer-Associated Zoonoses

Number: R01 AI-42402

Krause role: Principle investigator

PI: Peter J. Krause

Dates: 6/1997-5/2002

Total award amount: $2,208,263

**National Institutes of Health (NIAID)**

Title: Investigation of the Natural History of Babesiosis

Number:

Krause role: Co-investigator

PI: David Persing

Dates: 6/1997-5/2002

Total award amount: $101,452

**National Institutes of Health (NIAID)**

Title: Molecular Diagnosis and Monitoring of Lyme Disease

Number:

Krause role: Co-investigator

PI: David Persing

Dates: 6/1997-5/2002

Total award amount: $376,000

**National Institutes of Health (NIAID)**

Title: Multi-Locus Molecular Detection of *Borrelia burgdorferi*

Number:

Krause role: Co-investigator

PI: David Persing

Dates: 6/1997-5/2002

Total award amount: $376,000

**Gordon and Llura Gund Foundation**

Title: Human Tick-borne Diseases

Krause role: Principle investigator (0.25 FTE)

Dates: 5/1/09-12/30/22

Total award amount: $3,000,000

Description: This study addresses a broad range of research issues related to tick-borne diseases

**Centers for Disease Control and Prevention**

Title: Lyme disease Reduction via Deer-targeted Interventions

Number: 200-2010-M-37493

Krause role: Principle investigator (0.10 FTE)

Dates: 10/1/10-9/30/11

Total award amount:: $180,000

**Centers for Disease Control and Prevention**

Title: Efficacy of a One-step EIA for Diagnosing Lyme Disease Number:

Krause role: Principle investigator

Dates: 5/1/01-5/30/03

Total award amount: $187,996

**Connecticut Innovations Critical Technologies**

1999-2001

Title: Recombinant *Babesia microti* diagnostic antigens and vaccine

Krause role: co-Principle investigator

PIs: Peter J. Krause; Justin Radolf, MD

Total award amount: $291,655

**SmithKline Beecham Pharmaceuticals**

Title: A Comparative Study to Evaluate the Safety and Immunogenicity of a

Recombinant DNA Expressed Liop-protein Vaccine for Lyme Disease

in Healthy Subjects (7 to 15 years of age).

Krause role: Co-investigator

Dates: 1997-1999

Total award amount: $34,000

**SmithKline Beecham Pharmaceuticals**

Title: A Double-blind, Randomized, Dose-ranging, Placebo-controlled Study to Assess

the Safety and Efficacy of Multiple IM Doses of SB 209763 in Infants and Young Children

with Underlying Disease as Prophylaxis Against the Development of Serious RSV Infection.

Krause role: Co-investigator

Dates: 1995-1996

Total award amount: $40,000

**SmithKline Beecham Pharmaceuticals**

Title: A Dose-Ranging Study to Evaluate the Safety and Immunogenicity of a

Recombinant DNA Expressed Protein Vaccine for Lyme Disease in Healthy Subjects.

Krause role: Co-investigator

Dates: 1994-1995

Total award amount: $110,590

**SmithKline Beecham Pharmaceuticals**

Title: A Double-blind, Randomized, Dose-ranging, Placebo-controlled Study to Assess

 the Safety and Efficacy of Single IV Doses of SB 209763 in Infants and Young Children

Hospitalized with RSV Infection.

Krause role: Co-investigator

Dates: 1994-1995

Total award amount: $40,000

**University of Connecticut Faculty Research Grant**

Title: Molecular Cloning of *Babesia microti* Rhoptry Proteins

Krause role: Co-pinnciple investigator

PIs: Peter J. Krause; Justin Radolf

Dates: 1999-2000

Total award amount: $38,000

**University of Connecticut Research Foundation**

Title: Immunoenhancement of Neonatal Host Defense

Krause role: Principle investigator

Dates: 1986-1987

Total award amount:19,090

**Hartford Hospital Free Funds (Krause PI)**

1994-1996 Treatment of Persistent *Babesia microti* Parasitemia with Atovaquone: $10,000

1992-93 The rate of cardiac, joint, neurologic complications in atypical Lyme disease: $15,000

1992-93 Long term in vitro culture of *Babesia microti* : $15,000

1991-92 Age Related Severity of Babesios: $45,000

1990-91 Neutrophil Synthesis of the Cytokines IL-1 and G-CSF: $39,650

1989-90 PMN Maturation Markers for the Diagnosis of Infection: $24,570

1989-90 PMN Eggress from the Bone Marrow: $47,385

1989-90 The Effect of Hematopoetic Growth Factors on PMN Function and Outcome from Infection in Neonates: $34,164

1988-89 PMN Maturation Markers for the Diagnosis of Infection: $24,570

1988-89 Adherence Related Functions: $3,500

1988-89 31D8: A Novel Surface Antigen in Neutrophils which Mediates PMN Adherence

1988-89 PMN Storage Pool Exhaustion in Neonates: $3,500

1988-89 The Use of I/T PMN Ratio and 31D8 mAb Assay to Diagnose

1987-88 The Origin of Neutrophil Heterogeneity: $47,190

1987-88 Neutrophil Heterogeneity: $37,337

1986-87 Neutrophil Function in Very Low Birth Weight Infants: $32,482

1986-87 Augmentation of Neonatal PMN Function by Trental: $33,137

1986-87 Incidence and Pathogenesis of Infection in Children Suffering Trauma: $33,800

1985-86 Neutrophil Subsets in Neonates and Adults: $25,350

1985-86 The Use of Trental and Theophylline for Treatment of PMN Dysfunction in Neonates: $16,250

1984-85 The Role of Infection in the Pathogenesis of BPD: $23,043

1984-85 Neutrophil Adherence and Chemotaxis in Children with RSV: $14,235

1983-84 Host Defense in the Neonate: Pathogenesis and Treatment: $24,830

1981-82 Host Defense in the Neonate II $5,412

1980-81 Host Defense in the Neonate: $4,160

PEER REVIEW ACTIVITIES

***Editorial boards***

Member of the editorial board of the Journal of Clinical Microbiology 1991-1999

Member of the Editorial Board of International Scholarly Research Network Parasitology 2012- present

Associate Editor Plos Neglected Tropical Diseases 2018-2020

Deputy Editor Plos Neglected Tropical Diseases 2020-

Guest Editor Plos Pathogens 2018-2019

Editorial Board Clinical Microbiological Reviews 2020-2023

Editorial Board Clinical Infectious Diseases 2020-present

Editorial Board, Pathogens2019-present

Editorial Board Frontiers in Medicine (Associate Editor) 2022-

***Yale School of Public Health***

2012-2017 MPH Academic Advising Committee

2014- present MPH Sustainability Committee

***National Institutes of Health***

Member NIH site review team for review of Program Project Grant, "Role of Human Milk in Infant Nutrition and Health", Larry K. Pickering, MD, Principle investigator, Norfolk, VA 9-29-97

Member NIH Ad Hoc Review Committee on Impact of Microbial Interactions on Infectious Diseases, 2003/01 Council ZAI1 GPJ-M J1, 11/6-8/2002

Member NIH TMP Vector study section, ZRG1 TMP (99), 3/11-3/12/2004

Member NIH Ad Hoc Review Committee on Impact of Microbial Interactions on Infectious Diseases, 2003/01 Council [ZRG1 AIDC-V (13)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fpublic.csr.nih.gov%2FStudySections%2FDPPS%2FAIDC%2FAIDC13&data=04%7C01%7Cpeter.krause%40yale.edu%7C6df01fc193cc45e1f50f08d914ce89ed%7Cdd8cbebb21394df8b4114e3e87abeb5c%7C0%7C0%7C637563699581147175%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=FYta9d1TpD9LVxkVJ32TQGnIcXghSSe%2BdmR6F1Drn3k%3D&reserved=0), 6/24-6/25/2021

***Centers for Disease Control and Prevention***

Member of Special Emphasis Panel for the Centers for Disease Control and Prevention, Program announcement #04006 Cooperative Agreement for Research on the Laboratory Diagnosis, Immunology, and Pathogenesis of Lyme Disease in the United States 1/14/2004

***National Research Fund for Tick Borne Diseases, Inc. (NRFTD)***. Ad hoc reviewer, 11/26/2011

***Medical Journals***

Past/present reviewer for:

ACTA Parasitologica, ACTA Tropica, Advances in Medical Science, American Family Physician, American Journal of Kidney Disease, American Journal of the Medical Sciences, American Journal of Tropical Medicine and Hygiene, Annals of Internal Medicine, Applied and Environmental Microbiology, Arthritis Care & Research, Blood, British Medical Journal, Cell, Host & Microbe, Clinical Infectious Diseases, Clinical Microbiology, Clinical Microbiology and Immunology, Clinical Microbiology Reviews, Clinical Pediatrics, Connecticut Medicine, Cytokine, Emerging Infectious Diseases, Emerging Microbes & Infections, Environmental Microbiology and Environmental Microbiology Reports, European Journal of Microbiology and Infectious Diseases, Eurosurveillance, Folia Biologica (Kraków), Frontiers in Medicine, Frontiers in Public Health, Infection; Infection, Genetics, and Evolution; Infection and Immunity, Genetics, and Evolution, Infectious Diseases in Clinical Practice, Infection and Immunity, Interdisciplinary Perspectives on Infectious Diseases, International Journal of Parasitology, Journal of Antimicrobial Chemotherapy, Journal of the American Medical Association (JAMA), Journal of Clinical Microbiology, Journal of Diarrhoeal Diseases Research, Journal of Immunological Methods, Journal of Infectious Diseases, Journal of Medical Entomology, Journal of Pediatrics, Journal of Pediatric Infectious Diseases, Journal of the Pediatric Infectious Diseases Society, Journal of Pediatric Gastroenterology and Nutrition, Lancet, Lancet Infectious Diseases, mSphere, Nature Medicine, New England Journal of Medicine, Open Forum Infectious Diseases, Parasites & Vectors, Parasitology, Parasitology Research, Pediatrics, Pediatric Research, Pediatric Research Reviews, PLOS 1, PLOS Neglected Tropical Diseases, The Lancet, The Lancet Infectious Diseases, The Medical Letter on Drugs and Therapeutics, The Medical Journal of Australia, The Pediatric Infectious Diseases Journal, The Red Book (Report of the Committee on Infectious Diseases), Reviews of Infectious Diseases, Ticks and Tick-borne Diseases, Transactions of the Royal Society of Tropical Medicine & Hygiene; Transfusion, Transplant Infectious Disease, Trends Parasitol, Travel Medicine and Infectious Disease, Vector Borne and Zoonotic Diseases, Western Journal of Medicine, Vaccine

# Received recognition for reviewing two papers for New England Journal of Medicine from July through December, 2022

INSTITUTIONAL ACTIVITIES

***Present***

***Yale School of Public Health***

2012-2020 MPH Academic Advising Committee

2015-present Sustainability Committee

***Past***

***Connecticut Children's Hospital/University of Connecticut School of Medicine***

Chairman, Infection Control Committee

Chairman, Research Director Search Committee

Faculty Promotion Committee

Pediatrics Fellowship Committee

Medical Staff Council

***University of Connecticut School of Medicine***

General Clinical Research Center Scientific Advisory Committee

University of Connecticut School of Medicine Medical Council representative

### TEACHING ACTIVITIES

### *Selected recent invited talks*

*2023*

*“Borrelia miyamotoi* Immune Evasion”

NIH NIAID workshop

Understanding Immune Evasion in Tickborne Diseases

Virtual meeting 5/17-5/18/23

*“*Coinfection by *Ixodes* Tick-Borne Pathogens: Ecological, Epidemiological, and Clinical Consequences”

JHU Symposium on Ticks and Tickborne Diseases

Baltimore, Maryland 5/3/23

“Broad Antimicrobial Resistance in a Case of Relapsing Babesiosis Successfully Treated With Tafenoquine”

International Babesiosis Meeting

Yale University

4/15-4/16/23

*Babesia microti* and *Borrelia miyamotoi*: Blood transfusion issues

International Society of Blood Transfusion (ISBT)

Virtual meeting 1/26/23

*2022*

“Babesiosis”

Infectious Diseases Grand Rounds Discussant

Montefiore Hospital-Albert Eienstein, Bronx , NY 12/14/22

“Lyme disease and Babesiosis IDSA Guidelines 2020”

Northwell Health Infectious Diseases Grand Rounds 3/4/22

“What’s New in Tick-borne Diseases”

Yale Infectious Diseases Rounds 5/25/22

“What’s New in Tick-borne Diseases”

Yale Internal Medicine Rounds 7/6/22

*2021*

“The Epidemiology of Human Babesiosis”

International Babesiosis Meeting, Yale University April 2021

“Human Babesiosis”

University of Connecticut Health Center Medical Grand Rounds May 2021

“What’s New in Tick-Borne Diseases”

Talk to Infectious Diseases Fellows, Yale School of Medicine, June, 2021

Tick-borne infection research”

Chalk talk to Infectious Diseases Fellows, Yale School of Medicine, April, 2020

*2020*

“Tick-borne infection research”

Chalk talk to Infectious Diseases Fellows, Yale School of Medicine, April, 2020

*2019*

1. ”What's New in *Ixodes* Tick-Borne Diseases”. Connecticut Infectious Diseases Society Annual meeting. May 2019

2. “2019 Guideline on Diagnosis and Management of Babesiosis” Infectious Diseases Society of America Annual Meeting. October 2019

3. “The Emergence of Human Babesiosis”. American Society of Tropical Medicine and Hygiene, 68th Annual Meeting, Washington, D.C. November 2019

4. “Human Tick-borne Diseases Research Block Island: 25 Year Summary”. Block Island Rhode Island, November 2019

*2018*

1. “*Borrelia miyamotoi*: an emerging tick-borne disease”. International Conference on Emerging Infectious Diseases sponsored by the U.S. Centers for Disease Control and Prevention (CDC), Atlanta, Georgia; August 27, 2018

2. “What’s New in Tickborne Diseases”. Connecticut Children’s Medical Center Grand Rounds. Hartford, Connecticut; October 9, 2018

3. “Human *Borrelia miyamotoi* infection update.” Yale School of Medicine, Department of Pediatrics Research in Progress, New Haven, Connecticut; October 26, 2018

4. “Human babesiosis”. Yale School of Public Health Seminar. New Haven, Connecticut; November 8, 2018

*2017*

1. “Emerging tick-borne diseases and blood safety”. FDA Workshop on Emerging Tick-Borne Diseases and Blood Safety, Natcher Auditorium, NIH Campus; Bethesda, Maryland, April 6, 2017

2. “Emerging Tick-Borne Infections: Lyme disease, Babesiosis, and *Borrelia miyamotoi* Infection. Bridegeport Hospital Pediatric Grand Rounds, August 23, 2017

*2016*

1. “Babesiosis and *Borrelia miyamotoi* Infection: Emerging Tick-Borne Infections” Connecticut Agricultural Research Station New Haven, CT

2. “Emerging Tick-borne Infections” Norwalk Hospital, Norwalk, CT

3. “Hard Tick-borne Relapsing Fever due to *Borrelia miyamotoi*” International Conference on Relapsing Fever, Lake Arrowhead, CA

*4. “Borrelia miyamotoi* and *Borrelia* other than *B. burgdorferi*” Massachusetts General Hospital, Boston, MA

5. “Coinfections Acquired from Black-legged Ticks (*Ixodes scapularis*) American Society of Microbiology, Boston, MA

6. “Lyme Disease” Buffalo Children’s Hospital, Buffalo, NY

7. “*Borrelia miyamotoi* Relapsing Fever” New York Medical College, Westchester, NY Westchester

*2015*

1. “Human Babesiosis and *Borrelia miyamotoi* Infection” Lawrence and Memorial Hospital, New London, CT

2. “Human Babesiosis” Infectious Diseases Society of America, San Diego CA

3. “Emerging Tick-borne Infections” Dartmouth-Hitchcock Hospital, Hanover, NH

4. “Overview and Determination of the Relative Frequency of *Borrelia miyamotoi*, *Babesia microti,* and *Anaplasma phagocytophilum* in Subjects with Acute Lyme Disease: a Pilot Study” 14th International Conference on Lyme Borreliosis and Other Tick-Borne Diseases Vienna, Austria

*2014*

1. “Babesiosis” Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, D.C.

2. “Human *Borrelia miyamotoi* Infection” Connecticut Infectious Diseases Society. New Haven, CT

3. *“*Human Tick-borne Diseases” Boehringer Ingleheim, Danbury, CT

4. “Lyme disease, Babesiosis, *Borrelia miyamotoi* Infection” Rhode Island Department of Health/Brown University Department of Medicine, Providence, RI

*2013*

1. “Human *Borrelia miyamotoi* Infection.” Novel and Emerging Tick-Borne diseases: Agents, clinical features, and surveillance. Webinar sponsored by The Centers for Disease Control and Prevention, National Institutes of Health, Food and Drug Administration, Association of State and Territorial Health Officials, and the National Association of County & City Health Officials

2. “Human Babesiosis and Related Coinfecting Tick-Borne Diseases.” Pediatric Grand rounds, UCLA Medical Center, Los Angeles, CA

3. “Human Babesiosis.” William F. Buckley, Jr. lectureship Stamford Hospital, Stamford, CT

4. “Human babesiosis.” Harvard School of Public Health Global Health & Infectious Diseases: vector-borne and zoonotic infections Harvard Medical School, Boston, MA.

*2012*

1. “Recent Advances in Human Babesiosis.” American Society of Tropical Medicine and Hygiene, 61st Annual Meeting, Atlanta, Georgia

2. “Human babesiosis.” Harvard School of Public Health Global Health & Infectious Diseases: vector-borne and zoonotic infections Harvard Medical School, Boston, MA

3. “The Increasing Health Burden of Human Babesiosis, Medcial Grand Rounds, Main Medical Center, Portland, ME

*2011*

1. “Human babesiosis.” Harvard School of Public Health Global Health & Infectious Diseases: vector-borne and zoonotic infections Harvard Medical School, Boston, MA

*2010*

1. “The Increasing Health Burden of Human Babesiosis.” American Red Cross National Medical Advisory Council Meeting, Washington, DC

2. “The Increasing Health Burden of Human Babesiosis” and “ Human Babesiosis: At Risk Populations”, Institute of Medicine, National Academy of Sciences, Washington DC

3. “Critical Needs and Gaps in Understanding Prevention, Amelioration, and Resolution of Lyme and Other Tick-Borne Diseases.” Institute of Medicine, National Academy of Sciences, Washington DC

4. “Human Babesiosis.” Challenging Parasite Problems in U.S. Practice Symposium. Human babesiosis. Infectious Diseases Society 48th Annual meeting, Vancouver, Canada

5. “Tick-Borne Infections: Separating Fact from Fiction, Reality from Politics.” Co-Chair. Meet the Professor Session. Infectious Diseases Society 48th Annual meeting, Vancouver, Canada

6. “The Emerging Health Burden of Human Babesiosis.” The WHO Collaborating Center for Tropical Diseases (CTD), the Department of Pathology, and the Department of Microbiology & Immunology

The University of Texas Medical Branch, Galveston, Texas

*2009*

1. “Human babesiosis, an emerging infection.” American Society of Tropical Medicine and Hygiene

2. “Human babesiosis.” Connecticut Infectious Diseases Society

*2008*

1. “Human babesiosis.” New York Medical College. Valhalla, NY.

2. “Human babesiosis, an emerging infection.” Danbury Hospital, Danbury, CT.

*2007*

1. “Development of a novel vaccine for prevention of tick-borne infections.” Featured talk, Eastern Society of Pediatric Research. Philadelphia, PA

2. “Tick-borne Infections.” Infectious Disease Association of California. Palm Springs, California.

3. “Tick immunity and tick-borne infection.” Tufts University School of Medicine. Boston, MA

4. “Absence of serologic cross reactivity between *Borrelia burgdorferi* and *Babesia microti*.”

National Institutes of Health and Centers for Disease Control and Prevention sponsored conference: The Laboratory Diagnosis of Lyme disease II. Banbury Center, Cold Spring Harbor Laboratory, NY

*2006*

1. “Emerging tick-borne zoonoses: Lyme disease, babesiosis, human granulocytic ehrlichiosis.” American Society for Microbiology, 41st Annual Regional Meeting, Albany, NY

2. “The human immune response to *Ixodes scapularis* salivary protein.” NIH-University of Connecticut working group. University of Connecticut School of Medicine, Farmington, CT

3. “Lyme disease, babesiosis, human granulocytic ehrlichiosis.” McGill University, Montreal, Canada.

*2005*

1. “Emerging tick-borne zoonoses: Lyme disease, babesiosis, human granulocytic ehrlichiosis.”

Rhode Island Hospital, Providence, RI

2. “Tick-borne Zoonoses: Lyme disease, Babesiosis, HGE.” University of California Health Center, Los Angeles, CA

3. “Human babesiosis.” Harvard School of Public Health. Boston, MA

### *Teaching awards from the University of Connecticut School of Medicine*

Camel Teaching Award, The University Connecticut School of Medicine 1991

Presented to the Infectious Diseases Division for the best teaching Division at the Medical School

University of Connecticut Pediatric Housestaff Spot Award for teaching 2003

Presented 1x/month to the best teacher, UConn School of Medicine, Department of Pediatrics

### *Teaching activities 1990--present*

|  |  |  |  |
| --- | --- | --- | --- |
| **Course title** | **Topic** | **Students** | **Avg annual hours** |
| EMD512 Immunology for Epidemiologists 2008-2019 | Immunology | MPH students at the Yale School of Public Health | 48 |
| Infectious diseases electiveConnecticut Children’s Medical Center  | Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of infections | Adult ID fellowsPediatric housestaffMed students: 3-4th yr | 174 |
| Infectious diseases courseUniversity of Connecticut School of Medicine  | Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of babesiosis and malaria | Medical students: 2nd yr | 2 |
| Grand rounds  | Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of tick-borne diseases | University and Community hospitals  | 8 |
| Teaching seminars | Epidemiology, pathogenesis, immunology, clinical presentation, diagnosis, and treatment of tick-borne diseases | University hospitals and Academic organizations | 8 |
| Molecular and medical parasitology 2004-2005 | Epidemiology, pathogenesis, immunology, clinical presentation of babesiosis and malaria | Postdoctoral fellowsAdult ID fellows |  |

PRESENTATIONS

1. Boyer KM, Cherry JD, Spencer MJ, Welliver RC, Deseda-Tous J, Zahradnik JM, Krause PJ, Garakian AJ: IgM and IgG antibody responses to inactivated monovalent influenza A/NJ/76 and bivalent influenza A/NJ/76-A/Victoria/75 vaccines in pediatric populations. Presented in Washington on January 20 and 21 at the Influenza Conferences in 1977.

2. Welliver RC, Cherry JD, Boyer KM, Deseda-Tous J, Krause PJ, Dudley JP, Murray RA, Wingert W, Champion JG, Freeman G: Influenza surveillance in Los Angeles, 1976-77. Presented at the 17th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 13, 1977, New York City, New York.

3. Krause PJ, Cherry JD, Naiditch MJ, Deseda-Tous J, and Walbergh EJ: Revaccination of previous recipients of killed measles vaccine. Presented at the 17th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 13, 1977, New York City, New York.

4. Krause PJ, Deseda-Tous J, Cherry JD, Sullivan C, Strassburg M, Boyer KM, Dudley JP, Welliver RC: Measles revaccination: The degree of antibody response. Presented at the 17th Interscience Conference of Antimicrobial Agents and Chemotherapy, October 12-14, 1977, New York City, New York.

5. Krause PJ, Deseda-Tous J, Cherry JD, Strassburg M, Sullivan C. Spencer MJ, Bryson YJ, Welliver RC: Measles at a large university: 1977. Presented at the Western Society for Pediatric Research, February 2, 1978, Carmel, California.

6. Krause PJ, Deseda-Tous J, Cherry JD, Strassburg M, Sullivan C, Spencer M, Bryson YJ, Welliver RC, Boyer KM: Epidemic measles 1976-1977: Epidemiologic serologic and revaccination studies. Presented at The Society for Pediatric Research, 48th Annual Meeting, April 27, 1978, New York City, New York.

7. Krause PJ, Cherry JD, Naiditch MJ, O'Connor K: Revaccination of previous recipients of killed measles vaccine. Presented at the 18th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1-4, 1978, Atlanta, Georgia.

8. Krause PJ, Scroggs MW, Maderazo EG: Neonatal neutrophil adherence to glass and nylon wool. Presented at the 20th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 21, 1980, New Orleans, Louisiana.

9. Krause PJ, Owens NJ, Nightingale CH, Klimek JJ, Lehmann WB, Quintiliani R: Penetration characteristics of amoxicillin (A), cefaclor (C), eruthromycinsulfisoxazole (E:S), and trimethoprim-sulfamethoxazole (TMP:SMK) in middle ear fluid (MEF) of patients with chronic serous otitis media. Presented at the 20th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 22, 1980, New Orleans, Louisiana.

10. Maderazo EG, Krause PJ: Acridine orange assay of neutrophil ingestion and killing. Presented at the 20th Interscience Conference an Antimicrobial Agents and Chemotherapy, September 24, 1980, New Orleans, Louisiana.

11. Krause PJ, Hyams JS, Ballow M and Klemas BW: Nosocomial rotavirus infection in a neonatal intensive care unit. Presented at the 21st Interscience Conference on Antimicrobial Agents and Chemotherapy, November 6, 1981, Chicago, Illinois.

12. Krause PJ, Woronick CL, Maderazo EG: Simplified micropore filter assay of neutrophil migration using whole blood. Presented at the 22nd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 6, 1982, Miami Beach, Florida.

13. Hyams J, Feder H, Krause PJ, McLaughlin L, Furth T, Hine P: Occurrence of diarrhea and Clostridium difficile toxin following antibiotic therapy for otitis media. Presented at the 23rd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 24, 1983, Las Vegas, Nevada.

14. Herson VC, Krause PJ, Boutin-Lebowitz JC, Maderazo EG: Polymorphonuclear leukocyte chemotaxis and adherence in stressed neonates. Presented at the 9th Annual New England Conference on Perinatal Research, October 4, 1983, Chatham, Massachusetts.

15. Krause PJ, Ingardia CJ, LoBello TM, Maderazo EG: Neutrophil chemotaxis during pregnancy. Presented at the Third International Symposium on Infections in the Immunocompromised Host, June 24, 1984, Toronto, Canada.

16. Herrmann JE, Blacklow NR, Cukor G, Perron D, Krause PJ, Hyams JS, Ogra PL and Barrett H: Monoclonal antibody enzyme immunoassay for detection of rotavirus antigen in stool specimens. Presented at the 24th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 24, 1984, Washington DC.

17. Herson VC, Krause PJ, Eisenfeld LI, and Maderazo EG: Indomethacin associated sepsis in very low birth weight infants. Presented at the New England Conference on Perinatal Research, October, 1984, Chatham, Massachusetts and the Society for Pediatric Research, May, 1985, Washington, DC.

18. Feunfer MM, Krause PJ, Ingardia C, Block C. Raye JR: The effect of betamethasone on the chemotactic response of neonatal neutrophils. Presented at the New England Conference on Perinatal Research, May, 1985, Washington DC.

19. Krause PJ, Kristie J, Wang WP, Maderazo EG, Herson VC, Kreutzer D: Immunoenhancement of leukocyte function and host defense by pentoxifylline (Trental). Presented at the 4th International Symposium on Infections in the Immunocompromised Host, Partille, Sweden, June 15, 1986.

20. Cates KL, Krause PJ, Murphy TV, Stutman MR, Granoff DM: Recurrence of *Haemophilus influenzae* type b disease following Rifampin Prophylaxis. Presented at the 26th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 28, 1986, New Orleans, Louisiana.

21. Herson VC, Krause PJ, Eisenfeld L, Block C, Maderazo EG: The effect of intralipid on neonatal neutrophil and platelet function. Presented at The New England Conference on Perinatal Research, October 4, 1986, Chatham, Massachusetts.

22. Krause PJ, Bannon P, Eisenfeld L, Herson VC, Kosciol K, Davidson K: Heterogeneity of neutrophil (PMN) function and monoclonal antibody (Mab) binding in neonates and adults. Presented at the Society for Pediatric Research, April 28, 1987, Anaheim, California.

23. Krause PJ, Maderazo EG, Bannon P, Kosciol C, Malech HM: Neutrophil heterogeneity in patients with blunt trauma. Presented at American Federation of Clinical Research, May 2, 1987, San Diego, California.

24. Weisman SJ, Mahoney MUJ, Anderson DC, Krause PJ, Grannum PA: Prenatal diagnosis for MO-1 (CD W 18) Deficiency. Presented at The American Federation of Clinical Research, May 2, 1987, San Diego, California.

25. Josaki K, Kristie J, Krause PJ, Kreutzer DL: Effect of Pentoxifylline on human neutrophil function in vitro. Presented at the Federation of American Societies for Experimental Biology, March 20, 1987, Washington, DC.

26. Kreutzer DL, Krause PJ, Kristie J, Jozaki K, Eisenfeld L, Herson VC, Maderazo EG: Pentoxifylline induced protection of neonatal mice from *Staphylococcus aureus* infection. Presented at the Federation of American Societies for Experimental Biology, March 30, 1987, Washington, DC.

27. Krause P, Maderazo E, Bannon P, Kosciol C, Malech H. Neutrophil heterogeneity in patients with blunt trauma. Eastern Society for Clinical Research, May, 1987, New York.

28. Krause PJ, Todd M, Pastuszak W, Malech H: A surface antigen associated with cell function is increasingly expressed during myeloid development. Presented at the 28th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 24, 1988, Los Angeles, California.

29. Breux S, Woronick CL, Krause PJ, Maderazo EG: Comparison of protective and toxic effects of pentoxifylline and analogs in experimental *Staphylococcus aureus* infections in neonatal mice. Presented at the 28th Interscience Conference on Antimicrobial Agents and Chemotherapy, October 26, 1988, Los Angeles, California.

30. Krause PJ, Maderazo EG, Kripas CJ, Woronick CL, Bhagavan HN: Neutrophil chemotactic impairment in adolescents suffering blunt trauma. Presented at the Eastern Society for Pediatric Research. October 7, 1988, New York, New York.

31. Herson VC, Eisenfeld LI, Krause PJ, Phillips T, Maderazo EG: Effect of labor and delivery on neonatal neutrophil function. Presented at New England Conference on Perinatal Research, Chatham, Massachusetts, October, 1988.

32. Krause P, Hancock W, Becan D, Caron J, Kosciol K, Maderazo E, Eisenfeld L, Herson V, Anthony M: Expression of 31D8 antigen by HL60 cells. Presented at the Phagocyte Workshop, April 28, 1989, Washington, DC.

33. Krause PJ, Hancock W, Becan D, Caron J, Kosciol K, Maderazo EG, Eisenfeld L, Herson V, Anthony M. The origin of neutrophil 31D8 subpopulation. Presented at The Society for Pediatric Research, May 2, 1989, Washington, DC.

34. Krause PJ, Contrino J, Greca N, Kreutzer D. TNF Stimulation of IL-1 beta Production in Neonatal and Adult Neutrophils. Presented at the Phagocyte Workshop, April 28, 1990, Washington, DC.

35. Contrino J, Krause PJ, Greca N, Kreutzer D. TNF Stimulation of IL-1 beta Production in Neonatal and Adult Neutrophils. Presented at The Society for Pediatric Research, May 8, 1990, Anaheim, CA.

36. Eisenfeld L, Silver H, McGlaughlin J, Anderson P, Mayo D,Krause PJ and the Collaborative Study Group. The Efficacy of Microaggregate Filters for Prevention of Transfusion Acquired CMV. Presented at The Society for Pediatric Research, May 10, 1990, Anaheim, CA.

37. Woronick C, Maderazo E, Anthony M. Effects of various stimulators on 31D8 antigen expression of human neutrophils. Presented at the 29th Interscience Conference on Antimicrobial Agents and Chemotherapy, September, 1990, Atlanta, GA.

38. Krause PJ, Telford S, Ryan R, Hurta A, Kwasnik I, Luger S, Niederman J, Gerber M, Spielman A. Geographical and Temporal Distribution of Babesiosis in Connecticut. Presented at the 30th Interscience Conference on Antimicrobial Agents and Chemotherapy, October, 1990, Atlanta, GA.

39. Woronick CL, Maderazo EG, Anthony M, Krause P: Role of preactivation and oxygen byproducts on depressed expression of 31D8 antigen on human neutrophils in blunt trauma. Presented at the 30th Interscience Conference on Antimicrobial Agents and Chemotherapy, October, 1990, Atlanta, GA.

40. Feder HM, Gerber M, Krause P, Mintz E, Cartter M, Sikand V: Prospective assessment of Lyme disease in a school-aged population. Presented at The Society for Pediatric Research, May, 1991, New Orleans, LA.

41. Krause P, Telford S, Ryan R, Pollack R, Spielman A. Babesiosis in children.

 Presented at The Society for Pediatric Research, May, 1991, New Orleans, LA.

42. Krause P. The Laboratory Diagnosis of Lyme Disease. Presented at the Round Table Session "The Clinical Value of Diagnostic Tests in Infectious Diseases", American Society for Microbiology, 91st General Meeting May 8, 1991, Dallas, Texas.

43. Feder HM jr, Gerber MA, Krause PJ, Sikand V, Shapiro ED, Ryan RW. Lyme Disease Presenting as a Flu-like Illness Without Erythema Migrans. 31st Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1991, Chicago, Illinois.

44. Feder HM jr, Gerber MA, Krause PJ, Mintz E, Cartter M, Sikand V. Prospective Assessment of Lyme Disease in a Connecticut Community Population. 31st Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1991, Chicago, Illinois.

45. Pollack RJ, Telford SR III, Krause PJ, Ryan R, Zemel L, Brassard P, Spielman A. Age-related distribution and severity of human babesial infection. American Society of Tropical Medicine and Hygiene, December,1991, Boston, Massachusetts.

46. Feder jr HM, Gerber MA, Krause PJ, Cartter ML, Sikand V. Prospective assessment of Lyme disease in a Connecticut community population. V International Conference on Lyme Borreliosis, May 1992, Arlington, Virginia.

47. Gerber MA, Krause PJ, Badon SJ, Cartter ML. Prevalence of antibodies to Borrelia Burgdorferi (Bb) and to Babesia Microti (Bm) among blood donors in Connecticut. V International Conference on Lyme Borreliosis, May 1992, Arlington, Virginia.

48. Gerber MA, Shapiro ED, Krause PJ, Cable RG, Ryan RW. Risk of acquiring Lyme disease or babesiosis from a blood transfusion in Connecticut. V International Conference on Lyme Borreliosis, May 1992, Arlington, Virginia.

49. Krause PJ, Telford SR III, Ryan R, Conrad P, Thomford J, Neill P, Spielman A. Evaluation of IFA for the diagnosis of *Babesia microti* infection. The Society for Pediatric Research, May, 1992, Baltimore, Maryland.

50. Krause P, Telford S, Pollack R, Ryan R, Fitterman A, Burke G, Spielman A. Co-infection with Lyme disease and babesiosis. 32nd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1992, Anaheim, California.

51. Ryan R, Krause P, Telford S, Pollack R, Dias F, Spielman A. Equivocal *Borrelia burgdorferi* ELISA antibody test results. 32nd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1992, Anaheim, California.

52. Krause PJ, Olson N, Hild D, Telford S, Magera J, Persing D. Identification of *Babesia microti* in the bone marrow of a renal transplant patient. Annual Meeting of the Infectious Diseases Society of America, October, 1993, New Orleans, Louisanna.

53. Krause PJ, Sikand VJ, Bow L, Christianson D, Cartter M, Magera J, Persing D. PCR Diagnosis of *Babesia microti* Infection in Humans.33rd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1993, New Orleans, LA.

54. Gerber MA, Shapiro E, Krause PJ, Cable R, Ryan R. Risk of acquiring Lyme dsiease or babesiosis from a blood transfusion in Connecticut. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1993, New Orleans, LA.

55. Feder HM, Gerber MA, Krause PJ, Cartter M, Sikand V. Prospective assessment of Lyme disease in a Connecticut community population. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy, October 1993, New Orleans, LA.

56. Krause PJ, Telford S, Baltimore R, Persing D, Pollack R, Feder H, Christianson D, Brassard P, Burke G, Devarajan P, Spielman A. The clinical presentation of *Babesia microti* infection in children. Society for Pediatric Research, Seattle Washington, May, 1994.

57. Krause PJ, Telford S, Pollack R, Christianson D, Brassard P, Ryan R, Burke G,

 Spielman A.Lyme disease and babesiosis co-infection in humans. VI International Conference on Lyme Borreliosis. Bologna, Italy, June, 1994.

58. Krause PJ, Sikand VJ, Telford S, Spielman A, Christianson D, Cartter M, Magera J, Persing D. Molecular monitoring of *Babesia microti* parasitemia: Evidence of chronic infection in humans. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy. Orlando, Florida. October, 1994.

59. Persing D, Herwaldt BL, Glaser C, Lane RS, Thomford JW, Mathiesen D, Krause PJ, Phillip DF, Conrad PA. Human Piroplasmosis in the Western United States: Molecular Characterization of the Agent and Seroprevalence Studies. 34th Interscience Conference on Antimicrobial Agents and Chemotherapy. Orlando, Florida. October, 1994.

60. Kwasnik I, Peck J, Dias F, Krause PJ, Ryan RW. Laboratory diagnosis of patients suspected of having early Lyme disease. 95th American Society of Microbiology. Washington, D.C. May, 1994.

61. Krause PJ, Telford S, Spielman A, Sikand VJ, Ryan R, Christianson D, Brassard P, Pollack R, Burke G, Persing D. Increased Severity of Lyme Disease Illness Due to Concurrent Babesiosis. 35th Interscience Conference on Antimicrobial Agents and Chemotherapy. San Francisco, California, October, 1995.

62. Telford SR, Krause PJ, Meurice F, Krause D, Lepore T, Brassard P, Hoxsie R, Christiansen, Spielman A. Safety and Immunogenicity of a Candidate Lyme Disease Vaccine in Residents of Zoonotic New England Sites. 35th Interscience Conference on Antimicrobial Agents and Chemotherapy. San Francisco, California, October, 1995.

63. Magera J, Sloan L, Mathiesen D, Krause PJ, Conrad P, Rosenblatt J, Persing D. Broad-range PCR-Based Detection of Zoonotic Piroplasms. Infectious Diseases Society of America. San Francisco, California, October, 1995.

64. Rosenblatt J, Sloan L, Magera J, Krause PJ, Finkle M, Conrad P, Persing DH. Seroprevalence of Antibody to *Babesia microti* and a Newly Described *Babesia*-like Piroplasm (WA1) in the U.S. Infectious Diseases Society of America. San Francisco, California, October, 1995.

65. Krause PJ, Telford S, Spielman A, Sikand VJ, Ryan R, Christianson D, Brassard P, Pollack R, Burke G, Persing D. Increased Severity of Lyme Disease Illness Due to Concurrent Babesiosis. American Society of Tropical Medicine and Hygene. San Antonio, Texas,. November, 1995.

66. Krause PJ, Sikand VJ, Telford S, Spielman A, Christianson D, Cartter M, Magera J, Persing D. Molecular monitoring of *Babesia microti* parasitemia: Evidence of chronic infection in humans. American Society of Tropical Medicine and Hygene. San Antonio, Texas, November, 1995.

67. Krause PJ, Telford S, Spielman A, Sikand VJ, Ryan R, Christianson D, Burke G, Persing D. Increased Severity of Lyme Disease Illness in Children Due to Concurrent Babesiosis. Society for Pediatric Research. Washington, DC, May, 1996.

68. Padula SJ, Dias F, Krause PJ, Ryan RW. Lack of reactivity to P39 in patients with early Lyme disease. VII International Congress on Lyme Borreliosis. San Francisco, CA, June, 1996

69. Magera J, Krause PJ, Telford S, Spielman A, Sikand VJ, Ryan R, Christianson D, Rutledge B, Pollack R, Pancholi P, Peck J, Persing DH. Detection of *Borrelia burgdorferi* DNA in blood of patients with concurrent Lyme disease and babesiosis. VII International Congress on Lyme Borreliosis. San Francisco, CA, June, 1996.

70. Trevejo RT, Krause PJ, Schriefer ME, Ryan R, Sikand VK, Dennis DT. Evaluation of two-test serodiagnostic methods for early Lyme disease in clinical practice. Infectious Diseases Society of America. San Francisco, California, September, 1997.

71. Krause PJ, Telford SR, Spielman A, Lepore T, Sikand V, Pollack R, Persing D, Christianson D. Comparison of Clindamycin and Quinine with Atovaquone and Azithromycin for Treatment of Babesiosis. American Society of Tropical Medicine and Hygiene. Orlando, Florida, December, 1997.

72. Bruinsma ES, Lodes MJ, Moro MH, Krause PJ, Reynolds LD, Mohamath R, Benson DR, Houghton RL, Reed SG, Persing DH. Geographic Variation within a Gene Encoding an Immunoreactive Protein from *Babesia microti*. American Society of Tropical Medicine and Hygiene. Orlando, Florida, December, 1997.

73. Houghton RL, Bruinsma ES, Moro MH, Krause PJ, Reynolds LD, Mohamath R, Reed SG, Persing DH. Immunoreactivity of Recombinant Antigens of *Babesia microti* Isolated Using Serological Expression Cloning. American Society of Tropical Medicine and Hygiene. Orlando, Florida, December, 1997.

74. Sharan KP, Krause PJ, Sikand V, Telford S, Baltimore R, Persing D, Christianson D, Brassard P, Devarajan P, Lepore T, Spielman A. Babesiosis and Babesiosis./Lyme disease Coinfection in Children and Adults. Society for Pediatric Research. New Orleans, LA, May, 1998.

75. Aslanzadeh J, Krause PJ, Telford SL, Ryan R, Lepore T, Sikand V, Pollack R, Christianson D, Spielman A. Comparison of PCR and FA for diagnosing early human babesiosis**.** American Society for Microbiology 1998

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114. Krause, PJ. Co-Chair. Human babesiosis seminar. American Society of Tropical Medicine and Hygiene, Washington, DC November 22, 2009.

115. Krause, PJ. (invited speaker). The Increasing Health Burden of Human Babesiosis. Infectious Diseases & Immunity Colloquium. The WHO Collaborating Center for Tropical Diseases, Department of Pathology and the Department of Microbiology & Immunology, The University of Texas Medical Branch, Galveston, Texas. April 27, 2010.

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122. Krause, PJ. Co-Chair. Challenging Parasite Problems in U.S. Practice Symposium. Human babesiosis. Infectious Diseases Society of America 48th Annual meeting, Vancouver, Canada, October 22, 2010.

123. Krause, PJ. Co-Chair. Meet the Professor Session. Tick-Borne Infections: Separating Fact from Fiction, Reality from Politics. Infectious Diseases Society of America 48th Annual meeting, Vancouver, Canada, October 23, 2010.

124. Krause PJ (invited speaker) The Increasing Health Burden of Human Babesiosis. American Red Cross National Medical Advisory Council Meeting, Washington, DC, December 16, 2010.

125. Fish D, Fitzpatrick M, Brown J, Usmani-Brown S, Cislo P, and Krause P. Interactions Among *Ixodes* *scapularis*-Borne Pathogens, 6th International Conference on Emerging Zoonoses, Cancun, Mexico, February 24 – 27, 2011.

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The National Institutes of Health, Natcher Conference Center (Building 45) Bethesda, MD

136. Fish D, Krause PJ, Diuk Wasser. The emergence of human diseases borne by *Ixodes scapularis* ticks. XII international Jena Symposium on Tick-Borne Diseases to be held in Weimar, Germany 21-32 March 2013

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Meta-analysis of the clinical presentation and epidemiologic features of 128 *Borrelia miyamotoi* cases from Russia. 13th International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Boston, MA 8/18-21/13

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157. Krause, PJ. *Borrelia miyamotoi* and other relapsing fever *Borrelia* infections. New York Medical College, June 2016, Valhalla, NY.

158. Krause PJ. *Borrelia miyamotoi* relapsing fever and Lyme disease. University at Buffalo, June 2016, Buffalo, NY

159. Krause PJ. Human babesiosis. Phillip J. Porter lecture. Massachusetts General Hospital. October, 2016, Boston, MA

160. Krause PJ. Human babesiosis: an emerging tick-borne infection. American Society of Tropical Medicine and Hygiene. 65th Annual Meeting, November, 2016, Atlanta, GA.

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168. Krause PJ. “Ticks and Tropics”. 37th Connecticut Infectious Diseases Society annual meeting, New Haven, Connecticut, May 9, 2019.

169. Krause PJ. “2019 Guideline on Diagnosis and Management of Babesiosis” Infectious Diseases Society of America 57th Annual Meeting. October 2019

170. Krause PJ. “The Emergence of Human Babesiosis”. American Society of Tropical Medicine and Hygiene, 68th Annual Meeting, Washington, D.C. November 2019

171. Johnson D, Kelly JR, Deng Y, Ledizet M, Krause PJ and the *Borrelia miyamotoi* study group (Schwab J, Smith R, Stevens J, Straditis J). Seroprevalence of *Borrelia miyamotoi* and *Borrelia burgdorferi* in New England. Maine CDC.

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