

Bradley E. Britigan, M.D.

July 1, 2022

Bradley Edward Britigan, M.D.

University of Nebraska Medical Center
985520 Nebraska Medical Center
Omaha NE 68198-5520

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Higher Education

09/1972- 05/1976	B.A. (With Distinction)	Cornell University, Ithaca, NY
09/1976- 06/1980	M.D.	University of Southern California, Los Angeles, California

Postgraduate Medical Education

06/1980- 06/1983	Internal Medicine Resident	Rhode Island Hospital, Providence, RI
07/1983- 06/1987	Fellow and Clinical Instructor	Division of Infectious Diseases, University of North Carolina, Chapel Hill, NC

Certification

<u>Board</u>	<u>Number</u>	<u>Date</u>	<u>Recertification</u>
American Board of Internal Medicine	090943	09/1983	N/A
ABIM, Subspecialty Board in Infectious Diseases	090943	11/1986	N/A

Licensure

<u>State</u>	<u>Date</u>	<u>Perm./Temp.</u>	<u>Number</u>	<u>Renewal Date</u>
Rhode Island	06/16/1982	Perm.	RI6022	Inactive
North Carolina	05/07/1983	Perm.	NC26910	Inactive
Iowa	06/16/1987	Perm.	26065	Inactive
Ohio	06/01/2004	Perm.	084477	Inactive
Nebraska	05/24/2011	Perm.	26279	06/30/2021

July 1, 2022

B. Professional and Academic Positions

Academic

07/2011–Present	Stokes-Shackelford Professor and Dean of the College of Medicine	University of Nebraska Medical Center Omaha, NE
07/2011-Present	Professor of Internal Medicine; division of Infectious Diseases	University of Nebraska Medical Center Omaha, NE
7/2011-Present	Professor of Pathology and Microbiology (courtesy)	University of Nebraska Medical Center Omaha, NE
07/2004-06/2011	Taylor Professor of Internal Medicine and Chairman	University of Cincinnati College of Medicine, Cincinnati, OH
07/2002-06/2004	Professor of Radiation Oncology (Program in Free Radical Biology) (secondary)	University of Iowa, Iowa City, IA University of Iowa, Iowa City, IA
07/2000-06/2002	Professor of Radiology (secondary)	University of Iowa College of Medicine, Iowa City, IA
07/1994-06/2004	Professor of Medicine	University of Iowa College of Medicine, Iowa City, IA
07/1991-06/1994	Associate Professor of Medicine	University of Iowa College of Medicine, Iowa City, IA
07/1987-06/1991	Assistant Professor of Medicine	University of Iowa College of Medicine, Iowa City, IA University of Iowa College of Medicine, Iowa City, IA

Administrative and Professional

2015-2017	Board Member and Secretary (through 8/16)	Nebraska Health Network, Omaha NE
1/1/2014- 7/31/2016	President	Nebraska Medicine, Omaha NE
1/1/2014- 7/31/2016	Acting co-CEO	UNMC Physicians, Omaha, NE
2014-Present	Board Member	Nebraska Medicine. Omaha NE
2011-2016	Board Member	The Nebraska Medical Center,

Bradley E. Britigan, M.D.

July 1, 2022

		Omaha NE
2011-2016	Board Member	Nebraska Collaborative Labs, Omaha NE
2011-Present	Co-Director	Children's Specialty Physicians, Omaha, NE
2011-Present	Staff Physician	VA Nebraska-Western Iowa Health Care System Omaha, NE
2011-Present	Board Member	Children's Hospital, Omaha NE
2011-Present	Board Member and Vice President	UNeHealth, Omaha NE
2004-2011	Faculty Member, Graduate Program in Pathobiology and Molecular Medicine	University of Cincinnati College of Medicine, Cincinnati, OH
2004-2011	President	University Internal Medicine Associates Cincinnati, OH
2004-2011	Board Member	UC Physicians, Cincinnati, OH
2004-2011	Medical Staff Physician	Veterans Administration Medical Center Cincinnati, OH
2004-2011	Chief of Medical Service	University Hospital, Cincinnati, OH
2004-2011	Chairman, Department of Internal Medicine	University of Cincinnati College of Medicine Cincinnati, OH
1987-2004	Faculty Member, Institutional Training Grant Funded Programs in: Infectious Diseases, Pulmonary Medicine,	University of Iowa College of Medicine Iowa City, IA

Bradley E. Britigan, M.D.

July 1, 2022

	Cardiovascular Diseases, Mechanisms of Parasitism, Free Radical Biology, Cell Biology, Hematology/Oncology, MSTP Program	
1999-2004	Faculty Member, Free Radical and Radiation Biology	University of Iowa College of Medicine Iowa City, IA
1997-2004	Member, University of Iowa Cancer Center	University of Iowa College of Medicine Iowa City, IA
1994-1996	Faculty Member, Immunology Graduate Program	University of Iowa College of Medicine Iowa City, IA
1994-2004	Program Director, Infectious Diseases Fellowship Program	University of Iowa, Division of Infectious Diseases Iowa City, IA
1994-2004	Director, Division of Infectious Diseases	University of Iowa College of Medicine and VA Medical Center Iowa City, IA
1992-1994	Director of Fellow Recruitment	University of Iowa, Division of Infectious Diseases Iowa City, IA
1989-1993	Research Associate	VA Medical Center Iowa City, IA
1988-2004	Medical Staff Physician	VA Medical Center Iowa City, IA

C. Honors and Awards

<u>Year</u>	<u>Honor</u>
1976	Phi Beta Kappa
1976	Phi Kappa Phi
1983	Best Teaching Resident, Department of Medicine, Rhode Island Hospital
1985	Young Investigator Award, Interscience Conference on

July 1, 2022

1985-1987	Antimicrobial Agents and Chemotherapy (ICAAC) Burroughs-Wellcome Fellowship in Infectious Diseases, Infectious Diseases Society of America
1988-1990	Pfizer Scholar Award
1989-1990	National Foundation for Infectious Diseases Young Investigator Award
1993-1998	Established Investigator of the American Heart Association
1993	Elected to Membership American Society for Clinical Investigation
2000	Elected to membership Association of American Physicians
2015	Elected to Alpha Omega Alpha, Faculty

II. TEACHING

A. Teaching Assignments

Classroom, Seminar, Teaching Laboratory

<u>Year</u>	<u>Course Title</u>
1988-2004	Lecturer, Topics in Clinical Infectious Disease, University of Iowa
1991-2004	Lecturer, Clinical Pharmacology and Therapeutics Lecture Series, University of Iowa
1995-1996	Lecturer, Immunology II, University of Iowa
2001	Small Group Facilitator 156:201 “Principles in Molecular and Cell Biology”, University of Iowa
2014-	Lecturer, Microbiology for M2, UNMC

Clinical Teaching (in ward, clinic, or operating room)

<u>Year</u>	<u>Where Teaching Occurred</u>	<u>Wks/Yr</u>	<u>Hrs/Wk</u>
1987, 1988, 1995-2004	Internal Medicine Morning Report University of Iowa	4	1
1987-2004	Attending Rounds, General Medicine Wards, University of Iowa	4 – 10	20
1987-2004	Attending Rounds, Infectious Diseases Consult Service, University of Iowa	8	20
1988, 1991, 1994, 1997	Introduction to Clinical Medicine, University of Iowa	6	4
1992-1999	I.D. Conference for U of I Internal Medicine Residents/Students, “Bugs and Drugs”, University of Iowa	9	1
2004-2011	Internal Medicine Morning Report, University of Cincinnati and VAMC	26	1
2004-2009	Attending Rounds, General Medicine Wards, University Hospital and VAMC,	4	35

July 1, 2022

	Cincinnati, OH		
2009-2011	Attending Rounds, General Medicine Wards, University Hospital, Cincinnati, OH	6	35
2004-2009	Attending Rounds, Infectious Diseases Consult Service, University Hospital and VAMC, Cincinnati, OH	2	35
2009-2011	Attending Rounds, Infectious Diseases Consult Service, University Hospital, Cincinnati, OH	2	35
2009-2011	Attending Rounds, Infectious Diseases Consult Service, VA Hospital – Cincinnati, OH	4	15
2011-	Attending Rounds, Infectious Disease Consult Service VA Hospital – Nebraska/Western Iowa, Omaha NE	8	10
2013-	Attending Rounds, Infectious Disease Consult Service, The Nebraska Medical Center, Omaha NE	2	50

B. Graduate student supervision and committees

Masters' and Ph.D. Theses Directed and Postdoctoral Fellows Supervised

1987-1989	Thomas J. Coffman, M.D., Postdoctoral Fellow in Infectious Diseases
1989-1993	Matthew Wack, M.D., Co-sponsor with Dr. Mary Wilson, Postdoctoral Fellow in Infectious Diseases
1990-1993	Michael McCormick, Ph.D., Postdoctoral Fellow
1990-1993	Oyebode Olakanmi, Ph.D., Postdoctoral Fellow
1992-1995	Rachel Miller, M.D., Postdoctoral Fellow in Infectious Diseases
1997-1998	Avina Kolareth, M.D., Postdoctoral Fellow
2000-2002	Aliye Uc, M.D., Postdoctoral Associate in Pediatric Gastroenterology
2001-2003	Ambar Ahmed, M.D., Postdoctoral Fellow
2000-2003	Maher Abdalla, Doctoral Student, Program in Free Radical and Radiology Biology
2003-2004	Maher Abdalla, Ph.D., Post-doctoral Fellow
2006-2007	Julie Earwood, Masters Student, Program in Pathobiology
2009	Ye Xiong, graduate student in Pathobiology and Molecular Medicine, rotation student

Other:

1. Ph.D. Thesis Committee, Gregory Cohen, Univ. of Iowa, Radiation Research
2. Ph.D. Thesis Committee, James Elwell, Univ. of Iowa, Radiation Research
3. Ph.D. Comprehensive Exam Committee and Thesis Committee, Lisa Ridnour, Univ. of Iowa, Radiation Research

July 1, 2022

4. Ph.D. Comprehensive Exam Committee and Thesis Committee, Beth Anne Jurkiewicz, Univ. of Iowa, Radiation Research
5. Ph.D. Comprehensive Exam Committee, Eric Epping, Univ. of Iowa, Dept. of Physiology and Biophysics
6. Ph.D. Thesis Committee, Kira Gantt, Univ. of Iowa, Immunology
7. Ph.D. Thesis Committee, Steven Qian, Univ. of Iowa, Radiation Research
8. Ph.D. Thesis Committee, Eric Kelly, Univ. of Iowa, Radiation Research
9. Ph.D. Comprehensive Exam Committee, Wenqing Sun, Univ. of Iowa, Radiation Research
10. Ph.D. Comprehensive Exam Committee, Ye Xiong, Program in Pathobiology and Molecular Medicine, University of Cincinnati
11. Ph.D. Comprehensive Exam and PhD Supervisory Committee, Derek Moormeier Dept. of Pathology and Microbiology, UNMC

C. Other teaching contributions

Institutional Conferences, Grand Rounds, Journal Clubs, Etc.

<u>Year</u>	<u>Type of Activity</u>
1987	Internal Medicine Grand Rounds
1989	Univ. of Iowa sponsored CME, "AIDS-1989," Iowa City, IA
1990	Univ. of Iowa Refresher Course for the Family Physician, "AIDS Update," Iowa City, IA
1990	Internal Medicine Grand Rounds
1990	University of Iowa Refresher Course for the Family Physician, "Lyme Disease"
1991	University of Iowa 16 th Annual Nursing Conference, "Infections in Cancer Patients"
1991	University of Iowa Infection Control Seminar, Cedar Rapids, "Antibiotic Associated Diarrheas"
1992	University of Iowa AIDS 92 CME Conference
1992	University of Iowa Update for Ophthalmology Nurses, "Identifying and Managing Opportunistic Infections in HIV-Positive Patients"
1993	University of Iowa AIDS 93 CME Conference
1996	University of Iowa Neurology Grand Rounds, "Neurologic Manifestations of Lyme Disease"
1996	University of Iowa Neurosurgery Grand Rounds "Neurologic Manifestations of Lyme Disease"
1999	University of Iowa Family Practice Rounds, Mercy Hospital, Iowa City, IA, "Lyme Disease and Ehrlichiosis"
2001	University of Iowa Family Practice Rounds, Iowa City, IA, "Lyme Disease Update"
2005	CPC – University of Cincinnati

Bradley E. Britigan, M.D.

July 1, 2022

- 2005 University of Cincinnati Internal Medicine Grand Rounds –
“Iron metabolism and host defense; playing with biological dynamite”
- 2006 University of Cincinnati Internal Medicine Grand Rounds –
“Tickborne Diseases”
- 2010 University of Cincinnati Internal Medicine Grand Rounds –
“Anemia of Chronic Disease: An Ancient Host Defense Mechanism Gone Awry”
- 2012 UNMC Internal Medicine Grand Rounds –
“Iron Metabolism and Host Defense”
- 2017 UNMC Surgery Grand Rounds
Bacterial Iron Metabolism: A Target for a Novel Antimicrobial Strategy Using Gallium?

Medical Student Counseling:

- 1991-1994 Mentor, University of Iowa Philip G. Hubbard
Partners in Scholarship International Mentor
Program

Local and Regional CME Talks (since 1994 only)

- 1994 Iowa Academy of Family Physicians Summer Conference,
Okoboji, IA
- 1995 Iowa Lutheran Hospital, Des Moines, “Pneumonia”
- 1995 VA Medical Center, Knoxville, IA, “Antibiotic Update”
- 1996 Iowa Lutheran Hospital, Des Moines, “Lyme Disease”
- 1997 Des Moines General Hospital, Des Moines, IA, “Penicillin
Resistant Pneumococci”
- 1997 Mercy West, Des Moines, IA, “Penicillin Resistant
Pneumococci”
- 1998 Iowa Lutheran Hospital, Des Moines, IA, “STD Update”
- 1998 Visiting Professor, Trinity Medical Center, Rock Island, IL
- 1998 Organizer and Speaker, First Annual University of Iowa
Update in Infectious Diseases for Primary Care Providers
- 2000 Speaker, 3rd Annual University of Iowa Update in Infectious
Diseases for Primary Care Providers
- 2000 Visiting Professor, Covenant Medical Center, Waterloo, IA
- 2000 Visiting Professor, Grand Rounds Speaker
Mercy Hospital, Dubuque, Iowa
- 2000 Visiting Professor, Grand Rounds Speaker
Mercy Hospital, Mason City, Iowa
- 2001 Invited Speaker, Cedar Rapids Area Pharmacists’
Association
- 2001 Visiting Professor, Trinity Hospital, Moline, Illinois
- 2001 Visiting Professor, Mercy Hospital, Clinton, Iowa

July 1, 2022

2001	Speaker, 4th Annual University of Iowa Update in Infectious Diseases for Primary Care Providers
2002	Speaker, 5th Annual University of Iowa Update in Infectious Diseases for Primary Care Providers
2004	Speaker, 6th Annual University of Iowa Update in Infectious Diseases for Primary Care Providers
2005	Speaker, 7th Annual University of Iowa Update in Infectious Diseases for Primary Care Providers

III. SCHOLARSHIP

A. Publications or Creative Works

Peer-reviewed

1. Britigan, B.E., and Cohen, M.S.: Effect of growth in serum on uptake of *Neisseria gonorrhoeae* by Human Neutrophils. *J. Infect. Dis.* 152:330-338, 1985.
2. Britigan, B.E., Chai, Y., and Cohen, M.S.: Effects of human Serum on the growth and metabolism of *Neisseria gonorrhoeae*: An Alternative View of Serum. *Infect. Immun.* 50:738-744, 1985.
3. Britigan, B.E., Rosen, G.M., Chai, Y., and Cohen, M.S.: Do human neutrophils make hydroxyl radical? Detection of free radicals generated by human neutrophils activated with a soluble or particulate stimulus using electron paramagnetic resonance spectrometry. *J. Biol. Chem.* 261:4426-4431, 1986.
4. Britigan, B.E., and Cohen, M.S.: Effects of human serum on bacterial competition with neutrophils for molecular oxygen. *Infect. Immun.* 52:657-663, 1986.
5. Britigan, B.E., Rosen, G.M., Thompson, B.Y., Chai, Y., and Cohen, M.S.: Stimulated human neutrophils limit iron-catalyzed hydroxyl radical formation as detected by spin-trapping techniques. *J. Biol. Chem.* 261:17026-17032, 1986.
6. Britigan, B.E., and Blythe, W.B.: Malignant external otitis in a diabetic renal transplant patient: successful treatment without discontinuation of immunosuppressive therapy. *Transplantation* 43:769-771, 1987.
7. Cohen, M.S., Chai, Y., Britigan, B.E., McKenna, W., Adams, J., Svendsen, T., Bean, K., Hassett, D.J., and Sparling, P.F.: Role of extracellular iron in the action of the quinone antibiotic streptonigrin: mechanisms of killing and resistance of *Neisseria gonorrhoeae*. *Antimicrob. Agents Chemother.* 31:1507-1513, 1987.

July 1, 2022

8. Hassett, D.J., Britigan, B.E., Svendsen, T., Rosen, G.M., and Cohen, M.S.: Bacteria form intracellular free radicals in response to paraquat and streptonigrin: demonstration of the potency of hydroxyl radical. *J. Biol. Chem.* 262:13404-13408, 1987.
9. Cohen, M.S., Britigan, B.E., French, M., and Bean, K.: Preliminary observations on lactoferrin secretion in human vaginal mucus: Variation during the menstrual cycle, evidence of hormonal regulation, and implications for gonococcal infection. *Am. J. Obstet. Gynecol.* 157:1122-1125, 1987.
10. Cohen, M.S., and Britigan, B.E.: Metabolic responses of *Neisseria gonorrhoeae* to human serum and myeloid cells: Adaptation to host defenses. *Anton Leeuwenhoek J. Microbiol.* 53:545-550, 1987.
11. Britigan, B.E., Klapper, D., Svendsen, T., and Cohen, M.S.: Phagocyte derived lactate stimulates oxygen consumption by *Neisseria gonorrhoeae*: An unrecognized aspect of the oxygen metabolism of phagocytosis. *J. Clin. Invest.* 81:318-324, 1988.
12. Thompson, B.Y., Sivam, G., Britigan, B.E., Rosen, G.M., and Cohen, M.S.: The O₂ metabolism of the HL-60 cell line: Comparison of the effects of monocytoid and neutrophilic differentiation. *J. Leukocyte Biol.* 43:140-147, 1988.
13. Britigan, B.E., Rosen, G.M., and Cohen, M.S.: Hydroxyl radical formation in neutrophils. *N. Engl. J. Med.* 318:858 (letter), 1988.
14. Rosen, G.M., Britigan, B.E., Cohen, M.S., Ellington, S.P., and Barber, M.J.: Detection of phagocyte-derived free radicals with spin-trapping techniques: effects of temperature and cell metabolism. *Biochim. Biophys. Acta* 969:236-241, 1988.
15. Britigan, B.E., Coffman, T.J., Adelberg, D.R., and Cohen, M.S.: Mononuclear phagocytes have the potential for sustained hydroxyl radical production: Use of spin trapping techniques to investigate mononuclear phagocyte free radical production. *J. Exp. Med.* 168:2367-2372, 1988.
16. Weber, R.D., Britigan, B.E., Svendsen, T., and Cohen, M.S.: Energy is required for adherence of *Neisseria gonorrhoeae* to Phagocytic and Non-Phagocytic Cells. *Infect. Immun.* 57:785-790, 1989.
17. Pou, S., Rosen, G.M., Britigan, B.E., and Cohen, M.S.: Intracellular spin trapping of O₂-centered radicals generated by human neutrophils. *Biochim. Biophys. Acta.* 991:459-464, 1989.
18. Pou, S., Cohen, M.S., Britigan, B.E., and Rosen, G.M.: Spin trapping and human neutrophils: Limits of detection of hydroxyl radical. *J. Biol. Chem.* 264:12299-12302, 1989.

July 1, 2022

19. Britigan, B.E., and Hamill, D.R.: The interaction of 5,5 Dimethyl-1-Pyrroline-N-Oxide (DMPO) with human myeloperoxidase and its potential impact on spin trapping of neutrophil-derived free radicals. *Arch. Biochem. Biophys.* 275:72-81, 1989.
20. Britigan, B.E., Hassett, D.J., Rosen, G.M., Hamill, D.R., and Cohen, M.S.: Neutrophil degranulation inhibits potential hydroxyl radical formation: Differential impact of myeloperoxidase and lactoferrin release on hydroxyl radical production by iron supplemented neutrophils assessed by spin trapping. *Biochem. J.* 264:447-455, 1989.
21. Buettner, G.R., and Britigan, B.E.: The spin trapping of superoxide with M₄PO (3,3,5,5-Tetramethylpyrroline-N-Oxide). *Free Radical Biol. Med.* 8:57-60, 1990.
22. Britigan, B.E., Coffman, T.J., and Buettner, G.R.: Spin trapping evidence for the lack of significant hydroxyl radical production during the respiration burst of human phagocytes using a spin adduct resistant to superoxide mediated destruction. *J. Biol. Chem.* 265:2650-2656, 1990.
23. Britigan, B.E., and Hamill, D.R.: Effect of the spin trap 5,5 Dimethyl-1-Pyrroline-N-Oxide (DMPO) on human neutrophil function: Novel inhibition of neutrophil stimulus-response coupling? *Free Radical Biol. Med.* 8:459-470, 1990.
24. Coffman, T.J., Cox, C.D., Edeker, B.L., and Britigan, B.E.: Possible role of bacterial siderophores in inflammation: Iron bound to the pseudomonas siderophore pyochelin can function as a hydroxyl radical catalyst. *J. Clin. Invest.* 86:1030-1037, 1990.
25. Britigan, B.E., Pou, S., Rosen, G.M., Lilleg, D.M., and Buettner, G.R.: Hydroxyl radical is not a physiologic product of the reaction of xanthine oxidase and xanthine: The confounding problem of adventitious iron bound to xanthine oxidase. *J. Biol. Chem.* 265:17533-17538, 1990.
26. Cohen, M.S., Britigan, B.E., Chai, Y., Roeder, T.L., and Rosen, G.M.: Phagocyte-derived free radicals stimulated by ingestion of iron-rich *Staphylococcus aureus*: A spin trapping study. *J. Infect. Dis.* 163:819-824, 1991.
27. Britigan, B.E.: Diphenylhydantoin induced hypogammaglobulinemia in a patient infected with human immunodeficiency virus. *Am. J. Med.* 90:524-527, 1991.
28. Corey, W.A., Doebbeling, B.N., DeJong, K.J., and Britigan, B.E.: Metronidazole-induced acute pancreatitis: Case report and review of the literature. *Rev. Infect. Dis.* 13:1213-1215, 1991.
29. Britigan, B.E., and Edeker, B.L.: Pseudomonas and neutrophil products modify transferrin and lactoferrin to create conditions that favor hydroxyl radical formation. *J. Clin. Invest.* 88:1092-1102, 1991.

July 1, 2022

30. Zarley, J., Britigan, B.E., and Wilson, M.E.: Hydrogen peroxide mediated toxicity for *Leishmania donovani chagasi* promastigotes: Role of hydroxyl radical and protection by heat shock. *J. Clin. Invest.* 88:1511-1521, 1991.
31. Britigan, B.E., Roeder, T.L., and Buettner, G.R.: Spin traps inhibit dismutation of hydrogen peroxide: Implications for spin trapping hydroxyl radical. *Biochim. Biophys. Acta* 1075:213-222, 1991.
32. Britigan, B.E., Hayek, M.B., Serody, J.S., and Cohen, M.S.: Receptor-mediated uptake of lactoferrin by mononuclear phagocytes inhibits their ability to form hydroxyl radicals and protects them from membrane autooxidation. *J. Immunol.* 147:4271-4277, 1991.
33. Britigan, B.E., Roeder, T.L., and Shasby, D.M.: Insight into the nature and site of oxygen-centered free radical generation by endothelial cell monolayers using a novel spin trapping technique. *Blood* 79:699-707, 1992.
34. Ramos, C.L., Pou, S., Britigan, B.E., Cohen, M.S., and Rosen, G.M.: Human neutrophils generate hydroxyl radical through a myeloperoxidase-dependent mechanism. *J. Biol. Chem.* 267:8307-8312, 1992.
35. Britigan, B.E., Roeder, T.L., Rasmussen, G.T., Shasby, D.M., McCormick, M.L., and Cox, C.D.: Interaction of the *Pseudomonas aeruginosa* secretory products pyocyanin and pyochelin results in the generation of hydroxyl radical and causes synergistic damage to endothelial cells: Implications for pseudomonas-associated tissue injury. *J. Clin. Invest.* 90:2187-2196, 1992.
36. Cohen, M.S., Mao, J., Rasmussen, G.T., Serody, J.S., and Britigan, B.E.: Interaction of lactoferrin and lipopolysaccharide: Effects on the antioxidant property of lactoferrin and the ability of lipopolysaccharide to prime human neutrophils for enhanced superoxide production. *J. Infect. Dis.* 166:1375-1378, 1992.
37. Britigan, B.E., and Doebbeling, B.N.: Metronidazole and pancreatitis: Reply. (Letter) *Clin. Infect. Dis.* 15:751, 1992.
38. Olakanmi, O., Hayek, M.B., McGowan, S.E., Railsback, M., and Britigan, B.E.: Iron sequestration by macrophages decreases the potential for extracellular hydroxyl radical formation. *J. Clin. Invest.* 91:889-899, 1993.
39. Britigan, B.E., Hayek, M.B., Doebbeling, B.N., and Fick, R.B., Jr.: Evidence that transferrin and lactoferrin undergo proteolytic cleavage in the pseudomonas-infected lungs of patients with cystic fibrosis. *Infect. Immun.* 61:5049-5055, 1993.
40. Britigan, B.E., Rasmussen, G.T., and Cox, C.D.: Iron bound to the pseudomonas siderophore pyochelin accentuates oxidant-mediated endothelial cell injury. *Am. J. Physiol.* 266: L192-L198, 1994.
41. Wilson, M.E., Vorhies, R.W., Andersen, K.A., and Britigan, B.E.: Acquisition of iron from transferrin and lactoferrin by the protozoan *Leishmania chagasi*. *Infect. Immun.* 62:3262-3269, 1994.

July 1, 2022

42. Olakanmi, O., Stokes, J.B., and Britigan, B.E.: Acquisition of iron bound to low molecular weight chelates by monocyte-derived macrophages. *J. Immunol.* 153:2691-2703, 1994.
43. McCormick, M.L., Railsback, M.A., Roeder, T.L., and Britigan, B.E.: Eosinophil peroxidase-dependent hydroxyl radical formation by human eosinophils. *J. Biol. Chem.* 269:27914-27919, 1994.
44. Wilson, M.E., Anderson, K.A., and Britigan, B.E.: The response of *Leishmania chagasi* promastigotes to oxidant stress. *Infect. Immun.* 62:5133-5141, 1994.
45. Edeker, B.L., Rasmussen, G.T., and Britigan, B.E.: Bicarbonate and phosphate protects transferrin from myeloperoxidase-mediated damage, *J. Leukocyte Biol.* 58:59-64, 1995.
46. Miller, R.A., Rasmussen, G.T., and Britigan, B.E.: Protease cleaved iron transferrin augments oxidant-mediated endothelial cell injury via hydroxyl radical formation. *J. Clin. Invest.* 95:2491-2500, 1995.
47. Kamath, J.M., Britigan, B.E., Cox, C.D., Rasmussen, G.T., and Shasby, D.M.: Pyocyanin from *Pseudomonas aeruginosa* inhibits prostacyclin release from cultured endothelial cells. *Infect. Immun.* 63:4921-4923, 1995.
48. McCormick, M.L., Buettner, G.R., and Britigan, B.E.: Stimulation of peroxidase-mediated oxidation of deferoxamine by the spin trap α -(4-pyridyl-1-oxide)-N-t-butylnitron(4-POBN). *J. Biol. Chem.* 270:29265-29269, 1995.
49. Miller, R.A., Rasmussen, G.T., Cox, C.D., and Britigan, B.E.: Protease cleavage of iron-transferrin augments pyocyanin-mediated endothelial cell injury via the promotion of hydroxyl radical formation. *Infect. Immun.* 64:182-188, 1996.
50. Britigan, B.E., Ratcliffe, H.R., Buettner, G.R., and Rosen, G.M.: Binding of myeloperoxidase to bacteria: Effect on hydroxyl radical formation and oxidant-mediated killing. *Biochim. Biophys. Acta.* 1290:231-240, 1996.
51. Andersen, K.A., Britigan, B.E., and Wilson, M.E.: Regulation of inducible heat shock protein genes in *Leishmania chagasi*. *Am. J. Tropical Med Hygiene* 54:471-474, 1996.
52. McCormick, M.L., Metwali, A., Railsback, M.A., Weinstock, J.V., and Britigan, B.E.: Eosinophils from schistosome-induced hepatic granulomas produce superoxide and hydroxyl radical. *J. Immunol.* 157:5009-5015, 1996.
53. de Andres, B., Rakasz, E., Hagen, M., McCormick, M.L., Mueller, A.L., Elliot, D., Metwali, A., Sandor, M., Britigan, B.E., Weinstock, J.V., and Lynch, R.G.: Lack of Fc- ϵ receptors on murine eosinophils: implications for the functional significance of elevated IgE and eosinophils in parasitic infections. *Blood* 89:3826-3836, 1997.

July 1, 2022

54. Britigan, B.E., Rasmussen, G.T., Cox, C.D. Augmentation of oxidant injury to human pulmonary epithelial cells by the *Pseudomonas aeruginosa* siderophore pyochelin. *Infect. Immun.* 65:1071-1076, 1997.
55. Olakanmi, O., Stokes, J.B., Pathan, S., and Britigan, B.E.: Polyvalent cationic metals induce the rate of transferrin-independent iron acquisition by HL-60 Cells. *J. Biol. Chem.* 272:2599-2606, 1997.
56. Britigan, B.E., Rasmussen, G.T., and Cox, C.D.: Binding of iron and inhibition of iron-dependent oxidative cell Injury by the "calcium chelator" 1,2-Bis(2-Aminophenoxy)Ethane N,N,N',N'-tetraacetic Acid (BAPTA). *Biochem. Pharmacol.* 55:287-295, 1998.
57. Denning, G.M., Railsback, M.A., Rasmussen, G.T., Cox, C.D., and Britigan, B.E.: *Pseudomonas pyocyanin* alters calcium signaling in human airway epithelial cells. *Am. J. Physiol.* 274:L893-L900, 1998.
58. McCormick, M.L., Buettner, G.R., and Britigan, B.E.: Endogenous superoxide dismutase levels regulate iron-catalyzed hydroxyl radical generation resulting from hydrogen peroxide exposure. *J. Bacteriol.* 180:622-625, 1998.
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July 1, 2022

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July 1, 2022

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July 1, 2022

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153. Pasula, R., Kesavalu, B.R., Olakanmi, O., Martin, W.J., B.C. Trapnell, B.C., McCormack, F.X. and Britigan, B.E. Impaired alveolar macrophage (AMs) immune functions following silica administration is associated with increased susceptibility to *M. tuberculosis* infection in mice. 2008 Meeting of the American Thoracic Society
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July 1, 2022

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Reviews:

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July 1, 2022

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12. Miller, R.A., and Britigan, B.E. The role of oxidants in microbial pathophysiology. *Clin. Microbiol. Rev.* 10:1-18, 1997.
13. Wilson, M.E., and Britigan, B.E.: Iron uptake by parasites. *Parasitology Today*, 14:348-353, 1998.
14. Lau, G.W., Hassett, D.J., and Britigan, B.E. Modulation of lung epithelial functions by *Pseudomonas aeruginosa*. *Trends in Microbiology* 13:389-397, 2005
15. Sitorius, M.A., Wadman, M., Britigan, B.E., and Harrison, J.D. History and trends in US medical education: a focus on family medicine. *Clinical Medical Education* 1: 60-68, 2014

Other:

1. Olakanmi, O. and Britigan B.E. Insight into the mechanism and biologic implications of transferrin receptor independent iron transport by human myeloid cells. Invited Presentation in Iron Transport Symposium of INABIS /98, 5th Internet World Congress for Biomedical Sciences, 1998.

Papers Submitted or In Preparation:

1. Scott, Z., Choi, S.R., Talmon, G., Britigan, B.E., Narayanasamy, P. Combining gallium protoporphyrin and gallium nitrate enhances in vitro and in vivo efficacy against *Pseudomonas aeruginosa*: role of inhibition of bacterial antioxidant enzymes and resultant increase in cytotoxic ROS. *ACS Infect Dis* (in revision)
2. Scott, Z., Choi, S.R., Britigan, B.E., Narayanasamy, P. Development of gallium(III) as an antimicrobial drug targeting pathophysiologic iron metabolism of human pathogens. (in preparation)

Patents

U.S. Patent 6,203,822 BI Gallium-containing compounds for the treatment of infections caused by intracellular pathogens and pathogens causing chronic pulmonary infection. Larry Schlesinger, M.D. and Bradley Britigan, M.D. co-discoverers, issued March 20, 2001.

U.S. Patent 5,997,912 Methods for inhibiting growth of *P. aeruginosa* using gallium containing compounds. Larry Schlesinger, M.D. and Bradley Britigan, M.D. co-discoverers, December 7, 1999

U.S. Patent Provisional SN 60/233,353 Methods for treating human immunodeficiency virus infections with gallium compositions. Jack Stapleton, M.D., Larry Schlesinger, M.D., and Bradley Britigan, M.D. co-discoverers. September 18, 2001

Bradley E. Britigan, M.D.

July 1, 2022

U.S. Patent US2006/0018945 A1 Gallium inhibits biofilm formation. Bradley Britigan, M.D. and Pradeep Singh, M.D. co-discoverers. January 26, 2006

U.S. Patent Provisional 61/156, 101 Peroxidase inhibition to improve beta adrenergic therapy. Bradley Britigan, M.D., Krystof Reszka, Ph.D. and Dennis McGraw, M.D. co-discovers February 27, 2009

C. Areas of Research Interest and Current Projects

Areas of Research Interest

Role of phagocyte oxidant production in host defense/inflammation; *Pseudomonas aeruginosa* pathogenesis; lactoferrin biology, oxygen-centered free radicals; iron metabolism of intracellular pathogens and phagocytes.

Current Projects

Study of: iron metabolism and oxygen radical chemistry in phagocytes and other cells; mechanisms of cytotoxicity resulting from *Pseudomonas aeruginosa* pyocyanin; iron trafficking to intracellular pathogens such as *Mycobacterium tuberculosis* and other pathogenic mycobacteria; gallium as an antimicrobial agent.

D. Current Active Grants

Federal and State:

<u>Title and Source</u>	<u>Amount</u>	<u>Period</u>	<u>% Effort</u>	<u>% Salary</u>
None				

July 1, 2022

E. Completed GrantsFederal and State:

<u>Title and Source</u>	<u>Amount</u>	<u>Period</u>	<u>% Effort</u>	<u>% Salary</u>
University of Nebraska Collaboration Initiative Seed Grant “Mechanisms of action and resistance of gallium nanoparticles against pathogenic mycobacteria” R. Barletta, PI; B.E. Britigan, co-investigator	\$150,000	7/1/19-6/30/21	N/A	N/A
VA Merit Review “Development of Gallium-Based Therapies for Treatment of Pulmonary Mycobacterial Infection” B.E. Britigan, P.I.	\$619,000	10/1/14-9/30/19	30% VA	N/A
University of Nebraska Collaboration Initiative Planning Grant “Development of Antimycobacterial Drugs Targeting Iron Metabolism” L. Zhang, PI; B.E. Britigan, co-PI	\$20,000	7/1/18-6/30/19	N/A	N/A
University of Nebraska Collaboration Initiative Planning Grant “Impact of Iron Supplementation on the Gut Microbiome and Necrotizing Enterocolitis in Preterm Neonates” T. LeVant, PI; B.E. Britigan, co-PI	\$20,000	7/1/18-6/30/19	N/A	N/A
VA Merit Review “Iron acquisition by mycobacteria residing in macrophages” Bradley E. Britigan, P.I.	\$618,000	10/1/09 - 9/30/13	30% VA	N/A
NIH RO1 HL076955 Alveolar Macrophage and Mycobacteria (Raj Pasula, PI; B.E. Britigan, co-investigator)	\$1,250,000	09/2003-08/2009	10%	10%
NIH – Great Lakes Regional Center of Excellence in Biodefense “Development Project. Gallium as therapy for <i>F. tularensis</i> infection” B.E. Britigan, PI	\$100,000	08/2006-02/2009	2%	2%

July 1, 2022

VA Merit Review “Iron acquisition by mycobacteria residing in macrophages” Bradley E. Britigan, P.I.	\$686,000	10/1/02 – 03/31/08	30%	0%
NIH R21 AI60770 Use of gallium to prevent pseudomonas biofilm formation. B. E. Britigan, PI	\$275,000	09/2004- 08/2007	7.5%	7.5%
NIH PO AI44642 “Innate immune response to microbial infection (W.M. Nauseef, PI) Bradley E. Britigan, co-investigator, 5% effort. on project 5: “Phagogenesis of <i>F. tularensis</i> ” (L.A. Allen, PI) (Role terminated with Dr. Britigan’s move to UC)	(\$20,000 per year direct to Britigan project)	09/2003- 09/2006	<5%	0%
NIH Planning Grant Research Center of Excellence U56 AI057192 “Biodefense: Analysis of Human Lung-Host Pathogen Interactions”- Pilot Project: Gallium as therapy for Francisella tularensis infection – B.E. Britigan, P.I (Role terminated with Dr. Britigan’s move to UC)	\$60,000	09/2004- 08/2006	<5%	0%
“Pseudomonas Products, Oxygen Radicals, and Lung Injury” (NIH, RO1 AI34954) B. E. Britigan, P.I.	\$1,219,701	12/1998- 11/2005	30%	30%
NRSA Institutional Training Grant “Research Training in Infectious Diseases” (NIH T32 AI07343) B.E. Britigan, P.I. (role terminated with move to UC)	\$673,240	09/1994- 06/2004	10%	0%
NIH, P01-CA66081 “Oxidative Events in Cancer” (Larry Oberley, P.I.: B.E. Britigan, Co-investigator 10% effort, Project 1) “Role of Nitric Oxide, Hydrogen Peroxide and Peroxidase in Cancer Chemotherapy”, C. Patrick Burns, P.I. (role terminated with move to UC)	\$17,182 (yearly salary support for BEB)	02/2000 – 06/2004	10%	10%
NIH KO8 “Regulation of heme uptake and transport in Caco-2 cells.” Aliye Uc, Principal Investigator, B.E. Britigan, mentor. (role terminated with move to UC)	\$578,500	02/2003- 01/2006	<5%	0%

Bradley E. Britigan, M.D.

July 1, 2022

NIH Planning Grant Research Center of Excellence U56 AI057192: "Biodefense: Analysis of Human Lung-Host Pathogen Interactions" B.E. Britigan, Principal Investigator (role terminated with move to UC)	\$1,000,000	09/2003-09/2005	20%	20%
"Pseudomonas Products, Oxygen Radicals, and Lung Injury" (NIH, RO1 AI34954) B.E. Britigan, P.I.	\$740,618	12/1993-11/1998	30%	30%
"Antioxidant Biology of the Mononuclear Phagocyte Lactoferrin Receptor" (VA Merit Review) B.E. Britigan, P.I.	\$499,000	04/1992 – 03/1997	15%	0%
"Basis of Oxygen-Dependent Neutrophil Host Defenses" (NIH PO1 AI28412 Project II) B.E. Britigan P.I., Project II; Robert Clark, P.I. of PO1	\$370,721	08/1989 – 07/1995	25%	25%
"Monocyte/Macrophage Free Radical Biology Assessed by EPR (NIH, R29) B.E. Britigan, P.I.	\$350,000	01/1989 – 12/1992	50%	25%
Application for EPR Technology to Phagocyte Free Radical Biology (VA Research Associate Career Development Award) B.E. Britigan, P.I.	Salary + \$20,000/yr	09/1989-08/1993	N/A	N/A
Neutrophil Free Radical Biology: Impact of Phagocyte and Target Factors (VA Merit Review), B.E. Britigan, P.I.	\$132,292	10/1988-09/1991	15%	0%
Neutrophil Free Radical Biology: Impact of Phagocyte and Target Factors (VA RAG), B.E. Britigan, P.I.	\$23,750	04/1988-03/1989	N/A	N/A

Private Foundations:

<u>Title and Source</u>	<u>Amount</u>	<u>Period</u>	<u>% Effort</u>	<u>% Salary</u>
BRITIG12AO, CF Foundation "Studies of antimicrobial activity against mycobacterium abscessus", B.E. Britigan, PI	\$18,524	10/01/12-9/30/13		N/A

Bradley E. Britigan, M.D.

July 1, 2022

CF Foundation Pilot Project “Peroxidases Inactivate Pseudomonas Virulence Factors” B. E. Britigan, PI	\$80,000	09/01/2008- 08/31/2010	2%	0
“Promotion of Hydroxyl Radical-Mediated Tissue Injury by Pseudomonas Secretary Products” (American Heart Association, Established Investigator Award) B.E. Britigan, P.I.	\$271,750	07/1993 – 06/1998	N/A	N/A
“Inhibition of α -1 Antiprotease Regulation of Serine Proteases by the Pseudomonas Secretary Product Pyocyanin” (Cystic Fibrosis Foundation Research & Development Program Grant /Pilot and Feasibility Project) B.E. Britigan, P.I.	\$20,000	07/1992- 06/1994	10%	0%
“Pseudomonas Secretary Products Oxy- Radicals and Lung Injury ” (American Heart Association, Grant-In- Aid) B.E. Britigan, P.I.	\$120,000	07/1991- 06/1994	10%	0%
“Bacterial Lactate Metabolism: A Virulence Factor for Infection with Neisseria gonorrhoeae National Foundation for Infectious Disease Pilot Project. B.E. Britigan, P.I.	\$2,000	01/1989 – 12/1990	15%	0%
“Pseudomonas, Iron, and Hydroxyl Radical Catalysis” (Cystic Fibrosis Foundation Research Grant) B. E. Britigan P.I	\$150,950	12/1988 – 06/1991	10%	0%
“Study of Free Radical Production by Mononuclear Phagocytes Using Spin Trapping Techniques (Pfizer Scholars Research Program for New Faculty) B.E. Britigan, P.I.	\$100,000	07/1988 – 12/1990	N/A	N/A

Bradley E. Britigan, M.D.

July 1, 2022

Other:

<u>Title and Source</u>	<u>Amount</u>	<u>Period</u>	<u>% Effort</u>	<u>% Salary</u>
Nebraska Redox Biology Center Pilot Grant: “Peroxidase-mediated nitration of the <i>Pseudomonas aeruginosa</i> quinolone signal compound (PQS): biochemistry and possible role in cystic fibrosis lung injury (Maher Abdalla, PI; B.E. Britigan co-investigator)	\$79,200	5/1/2011-2012	<5	0
UC CCTST T1 Pilot “Oxidative Inactivation of β_2 -Agonists by Endogenous Peroxidases in the Asthmatic Airway (B.E. Britigan, PI)	\$15,000	08/01/2009-07/31/2010		0
UC College of Medicine Center for Microbial Pathogenesis Pilot project “Aerosolized Gallium Therapy for <i>Francisella tularensis</i> Lung Infection” B.E. Britigan, PI				
“A Prospective Open-Label Study to Assess the Efficacy and Safety of Higher Dailey Dosing of Amphotericin B Lipid Complex Abelcet in Patients with Serious Fungal Infections (Liposome Company), B.E. Britigan, P.I.	\$7,800	10/2000-10/2001	1	1
“A Multi-center, Open-Label, Non-Comparative Study to Assess the Safety and Efficacy of IV Daptomycin in the Treatment of Hospitalized Subjects with Infections due to Gram-Positive Bacteria that are Resistant to Vancomycin, or who are Otherwise Refractory to or Contraindicated for, Currently Available Therapy (Advanced Biologicals) B.E. Britigan, P.I.	\$96,415	07/1999 – 03/2001	5	5

July 1, 2022

“A Multi-center, Open-Label, Randomized Study to Compare the Safety and Efficacy Of IV Daptomycin with that of Vancomycin or a Semi-Synthetic Penicillin in the Treatment of Bacteremic Infections due to Gram-Positive Bacteria” (Advanced Biologicals) B.E. Britigan, P.I.	\$167,120	07/1999 – 03/2001	13	13
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F. Grant Proposal Pending Decisions

<u>Pending Grants:</u>	<u>Amount</u>	<u>Period</u>
None		

G. Invited Lectures

1992 Organizer and Speaker, AFRCR Satellite Symposium, "The Biology of Inflammation: Mechanisms and Consequences"

1993 Invited Speaker, North American Cystic Fibrosis Conference

1993 Invited Speaker, 4th International Symposium on Spin Trapping and EPR Spectroscopy

1993 Co-organizer and Speaker, University of Iowa Symposium on Free Radicals in Biology

1994 Invited Speaker, Symposium on Oxidants and Injury/ Atherosclerosis, Annual Meeting of the AFRCR/ASCI/AAP.

1994 Invited Speaker, Midwest Microbial Pathogenesis Conference

1994 Visiting Professor, Division of Infectious Diseases, University of Maryland

1994 Invited Speaker, 2nd International Lactoferrin Symposium, Honolulu, HI

1997 Visiting Professor, Department of Internal Medicine, University of Illinois-Chicago

1997 Invited Speaker, 3rd International Lactoferrin Symposium, LeTouquet, France

1998 Visiting Professor, Division of Infectious Diseases, Montefiore Medical Center, New York, NY

1998 Invited Speaker, Fifth National Research Utilization Conference, An Interdisciplinary Perspective on “Evidence-Based Practice”, Iowa City, IA

2001 Visiting Professor, Dept. of Internal Medicine, Dartmouth College of Medicine, Hanover, NH

2002 Invited Speaker, ASM Pseudomonas 2002, Salt Lake City, UT

2002 Invited Speaker, Oxygen Society Annual Meeting, San Antonio, TX

2003 Visiting Professor, Department of Internal Medicine, Temple University, Philadelphia, PA

2003 Visiting Professor, Department of Chemistry, Wichita State University,

July 1, 2022

- Wichita, KS.
- 2004 Invited Speaker, Physiological Society Focused Meeting on Epithelial-Bacterial Pathogen Interactions, University of Newcastle upon Tyne, UK
 - 2006 Visiting Professor, Dept. of Internal Medicine, Ohio State University, Columbus, OH
 - 2011 Visiting Professor, Dept. of Internal Medicine, Indiana University, Indianapolis, IN
 - 2013 Visiting Professor, Tongji University, Shanghai, China
 - 2014 Invited Speaker, Family Medicine Symposium, Shanghai China
 - 2014 Invited Speaker, Family Medicine Symposium, Xi'an, China
 - 2015 Invited Speaker, Zhongshan Hospital, Shanghai, China
 - 2015 Invited Speaker, Shandong University School of Medicine, Jinan, China
 - 2015 Invited Speaker, Family Medicine Symposium, Shanghai, China
 - 2015 Invited Speaker, Family Medicine Symposium, Guangzhou, China
 - 2016 Invited Speaker, Family Medicine Symposium, Shanghai, China
 - 2017 Invited Speaker, Family Medicine Symposium, Shanghai, China
 - 2018 Invited Speaker, Family Medicine Symposium, Shanghai, China
 - 2019 Keynote Speaker, Midwest AFMR Annual Meeting, Chicago, IL
 - 2019 Invited Speaker, Family Medicine Symposium, Shanghai, China

IV. SERVICE

A. Clinical assignments (since 2000)

Inpatient:

- 2000 – 2001 UI/VA Infectious Diseases Consult Service, Iowa – 1.5 months
- 2000 – 2001 UI/VA General Medicine, Iowa City, IA – 1.5 months
- 2001 – 2002 UI/VA Infectious Diseases Consult Service, Iowa City, IA – 2 months
- 2001 – 2002 UI/VA General Medicine, Iowa City, IA 0.5 months
- 2002 – 2003 UI/VA Infectious Diseases Consult Service, Iowa City, IA – 2 months
- 2002 – 2003 UI/VA General Medicine, Iowa City, IA 1.5 months
- 2003 – 2004 UI/VA Infectious Disease Consult Service, Iowa City, IA – 3 months
- 2003 – 2004 UI/VA General Internal Medicine, Iowa City, IA – 1 month
- 2004 – 2009 UC/VA General Internal Medicine, Cincinnati, OH – 1 month
- 2009 - 2011 UC General Internal Medicine, Cincinnati, OH – 1.5 months
- 2004 – 2009 UC/VA Infectious Diseases Consult Service, Cincinnati, OH – 0.5 months
- 2009 – 2011 UC Infectious Disease Consult Service, Cincinnati, OH – 0.5

July 1, 2022

	months
2009 – 2011	VA Infectious Disease Consult Service, Cincinnati, OH – 1 month
2011 – Present	VA Infectious Disease Consult Service, Omaha NE – 2 months
2012 – Present	Nebraska Medical Center Infectious Disease Consult Service, Omaha NE - 0.5 months

Outpatient

1996-2004	UI/VA Infectious Diseases Clinic, Iowa City, IA, ½ day/week x 1 month/year
1996-2004	UI Virology Clinic, Iowa City, IA, ½ day/week

B. Offices Held in Professional Organizations

Review panels:

<u>Year</u>	<u>Activity</u>
1987-	Ad Hoc Reviewer of manuscripts: <i>e.g. Journal of Immunology, Journal of Leukocyte Biology, Nature, Cancer Research, Journal of Clinical Investigation, Journal of Biological Chemistry, Chemical-Biological Interactions, American Journal of Respiratory Cell and Molecular Biology, Blood, Journal of Infectious Disease, Infection and Immunity, Archives of Biochemistry and Biophysics, Free Radical Biology and Medicine, Canadian Journal of Microbiology, Annals of Otolaryngology, Antimicrobial Agents and Chemotherapy, Archives of Oral Biology, Clinical Infectious Disease, Hepatology, Biochimica et Biophysica Acta, Molecular Cancer Therapeutics, European Respiratory Journal, FEMS Immunology and Medical Microbiology, International Journal of Medical Microbiology, Review of Respiratory Research, Translational Research, BMC Microbiology</i>
1987, 1990	Phagocyte Session Co-Chairman, ICAAC
1989, 1991, and 1993	Ad Hoc Reviewer, VA Merit Review Board
1990	Session Moderator, Phagocyte Workshop, Washington, DC
1990	Member, Research Review Committee, University of Iowa Cancer Center
1990	Reviewer for AFCR Merck, Sharp and Dohme, Postdoctoral Training Award
1990	Ad Hoc Reviewer and Site Visit Participant, NHLBI
1991	Ad Hoc Reviewer, NIAID
1991	Reviewer for Infectious Diseases Abstracts Submitted to the

Bradley E. Britigan, M.D.

July 1, 2022

Midwest Section AFCR Meeting
1992 Ad Hoc Member, Bacteriology and Mycology 2 NIH Study Section
1993 Communicating Member, NCI Study Section for RFA on Biology and Immunology of Breast Cancer
1994-1997 Member, VA Merit Review Board in Infectious Diseases
1997 Member, External Advisory Committee, University of Kansas Medical Center for NIH IDEA program for research training of clinical faculty
1998-2000 Member, VA Research Career Scientist Evaluation Committee
1998 Member, NIAID Special Emphasis Panel
1998-2000 Member, Pharmacy and Therapeutics Committee, WellMark of Iowa
1998-2008 Associate Editor, Journal Watch Infectious Disease
1999 Member, NIAID Special Emphasis Panel
1999 Member, Special VA Medical Research Scientist Review Committee
2000-2004 Member, Academic Advisory Board, Pfizer Postdoctoral Fellowship Program in Infectious Diseases (Chair 2003-4)
2000 Ad hoc reviewer, National Science Foundation
2000 Member, Wellmark Pharmacy Directors Project Committee
2001 Ad hoc reviewer, Burroughs Wellcome Trust
2001 Member, NIAID Special Emphasis Study Section
2007 Member, NIAID Special Emphasis Study Section
2008-2010 Member, VA Research Career Scientist Evaluation Committee
2009 Ad hoc Member, Lung, Cell, Molecular Immunology NIH study section
2009 Ad hoc reviewer, Swiss National Science Foundation
2009- Member, Editorial Board, *Translational Research*
2010 Invited participant, national Dept. of Veterans Affairs strategic planning meeting entitled “Transforming Infectious Diseases and Infection Prevention for the 21st Century”
2010 Ad hoc Member, Lung, Cell, Molecular Immunology NIH study section
2010 Member VA Special Emphasis panel on research on Gulf War Veterans’ Illness
2012 Ad hoc Member, Lung, Cell, Molecular Immunology NIH study section
2012 Ad hoc Member, NIH F13 Fellowship Review Panel for Infectious Disease and Microbiology
2013 Member and Chair, NIH PO1 Review Panel ZAI1 AWA-M (M1) for NIAID Investigator Initiated Program Project Grant Applications (PO1)
2015 Member, Admissions Review and Selection Committee, Executive Leadership in Academics (ELAM), Philadelphia, PA

July 1, 2022

2015	Invited participant White House Roundtable on Medical Education and Climate Control
2016	Member, Admissions Review Committee, Executive Leadership in Academics (ELAM), Philadelphia, PA
2017	Member, Admissions Review and Selection Committee, Executive Leadership in Academics (ELAM), Philadelphia, PA
2017	Ad hoc reviewer, Cystic Fibrosis Foundation Therapeutics Development Award (TDA) program
2018	Member, Admissions Review Committee, Executive Leadership in Academics (ELAM), Philadelphia, PA
2018	Member, NIH special emphasis panel SEM ZRG1 IDM-Y 82 to review small exploratory research grant applications (R21 and R03) in the area of antimicrobials – March 2018
2018	Member, LCME site visit team to review Central Michigan University College of Medicine
2018	Member, NIH special emphasis panel SEM ZRG1 IDM-Y 82 to review small exploratory research grant applications (R21 and R03) in the area of antimicrobials – November 2018
2019	Member, Admissions Review and Selection Committees, Executive Leadership in Academics (ELAM), Philadelphia, PA
2019	Chair, LCME site visit team to review Mayo Clinic College of Medicine
2019-	AAMC Council of Deans Liaison to the National Board of Medical Examiners Advisory Committee for Medical School Programs,
2020	Chair, LCME site visit team to review Chicago Medical School
2021	Chair, LCME site visit team to review Cooper Medical School

Departmental, collegiate, or university service positions:

<u>Year</u>	<u>Committee</u>
1988-1991	Joint Subcommittee Antibiotic Utilization Review, University of Iowa Hospitals and Clinics
1989-1994 and 1997-2004	Member, Advisory Committee, University of Iowa ESR Facility
1990-1995	Member, Pharmacy and Therapeutics Committee, University of Iowa Hospitals and Clinics
1991-2004	Chairman, Antibiotic Advisory Subcommittee, University of Iowa Hospitals and Clinics
1992	Member, University of Iowa, Department of Internal Medicine Promotions Committee for Probationary Faculty
1994	Member and Chairman, University of Iowa, Department of Internal Medicine Promotions Committee for Associate Professor
1995	Member, University of Iowa Department of Internal Medicine

Bradley E. Britigan, M.D.

July 1, 2022

Promotions Committee for Associate Professors
1995-2002 Chair, Pharmacy and Therapeutics Committee, University of Iowa Hospitals and Clinics
1996 Chair, UIHC Medication Process Improvement Team
1996-1997 Chair, Search Committee for Director of UIHC Department of Pharmaceutical Therapeutics
1997-1998 Member, University of Iowa College of Medicine Research Advisory Committee
1997-1998 Co-Chair, University of Iowa College of Medicine Research Retreat Planning Committee
1999 Member, University of Iowa Department of Internal Medicine Task Force on Education
2000 Member, UIH Nitric Oxide Process Improvement Committee
2001 Member, Steering Committee UIHC Medication and Laboratory Specimen Point of Care Device Steering Committee
2001-2004 Member, University of Iowa Department of Internal Medicine Committee on Documentation
2002 Chairman, University of Iowa College of Medicine Review Committee for the Department of Biochemistry
2002-2004 Member, University of Iowa College of Medicine Joint Collegiate Nominations Committee
2004-2011 Member, Medical Executive Committee, University Hospital, Cincinnati, OH
2004-2011 Member, Executive Committee; Board of Trustees; and Finance Committee (2009-2011); Chair, Governance Committee (2009-2011), UC Physicians, Cincinnati, OH
2004- 2011 Member, Executive Committee, Medical Center Fund of Cincinnati
2004-2011 Member, Piedmont-Eden Board, Cincinnati, OH
2004-2011 Member, UC/VA Affiliation Partnership Council
2004-2-11 Member, UC College of Medicine Space Committee (Chair, 2008-2011)
2005 Member, Search Committee for Dean of the University of Cincinnati College of Medicine
2005 Member, University of Cincinnati College of Medicine Committee to Review the Department of Physical Medicine and Rehabilitation
2005-2011 Member, Steering Committee, GCRC, VA Medical Center, Cincinnati, OH
2006 Chair, University of Cincinnati College of Medicine Committee to Review the Department of Family Medicine
2006-2007 Member, UC College of Medicine Clinical Strategic Planning Committee
2006-2007 Member, UC College of Medicine Education Strategic Planning Committee
2006-2008 Member, Search Committee for UC Cancer Center Director

Bradley E. Britigan, M.D.

July 1, 2022

2006-2007	Member, Search Committee for Chair of UC Department of Surgery
2006-2009	Member and Chair, UC Academic Health Center Committee on Branding
2007-2008	Member, University Hospital GME Manpower Committee
2007	Vice Chair, Centers of Excellence and Program Development Strategy Design Team – combined UC College of Medicine, UC Physicians, University Hospital Strategic Planning Effort
2007	Member, Education Strategic Planning Council for University Hospital
2007-2008	Member, Dean’s Advisory Committee on Industry Relations
2008-2009	Member, University of Cincinnati Physicians Re-engineering Oversight Committee
2008-2010	Member, University of Cincinnati Faculty Grievance Review Committee
2008-2011	Member, Executive Committee and founding member of Midwest Center for Emerging Infectious Diseases of the University of Cincinnati College of Medicine
2008-2011	Member, Dean’s Steering Committee, UC College of Medicine
2009-2010	Member UC College of Medicine Task Force on Basic Research in Clinical Departments
2009-2011	Member UC College of Medicine Clinical Faculty Policies Review Committee
2011-	Ex Officio Member, Board of UNMC-Physicians
2011-	Ex Officio Member, Board and Executive Committee of The Nebraska Medical Center
2011-	Member, UNMC Chancellor’s Council
2011-	Member, Children’s Specialty Physicians Board
2012-	Member, Executive Planning Committee for UNMC Fred and Pamela Buffett Cancer Center construction
2013	Co-Chair, OneTeam Committee to develop clinical integration plan for UNMC-Physicians and The Nebraska Medical Center - this led to formation of Nebraska Medicine
2014-	Member, UNMC Chancellor’s IT Governance Committee
2015-	Member, UNMC Alumni Association Board
2015-16	Member, Search Committee for Director of Monroe Meyer Institute, UNMC
2015	Member, Search Committee for CEO, Children’s Hospital of Omaha
2018	Member, Search Committee for Vice Chancellor of Business and Finance at UNMC and University of Nebraska Omaha
2018	Co-chair, search committee for UNMC chair of Pediatrics, Pediatrician in Chief of Children’s Hospital of Omaha and Executive Director of UNMC Child Health Research Institute.
2018	Member, Search Committee for Dean of UNMC College of Pharmacy

July 1, 2022

2018-20	Co-chair, search committee for Director of UNMC Fred and Pamela Buffett Cancer Center
2019-20	Member, Search Committee for CEO, Children's Hospital of Omaha
2022	Member, Search Committee for UNMC Vice Chancellor for Research
2022	Member, Search Committee for Dean of UNMC College of Nursing
2002	Chair, Search Committee for Dean of UNMC College of Dentistry

Professional Affiliations (including offices held)

<u>Year</u>	<u>Organization</u>
1983-	American College of Physicians (Elected to Fellowship, 1992)
1983-	American Federation for Medical Research, Councilor, Midwest Section (1989-1991); Chairman-Elect, Midwest Section (1991-1992); <u>Chairman</u> , Midwest Section (1992-1993); Secretary-Treasurer, National (1993-1995); President-elect, National (1995-1996); <u>President</u> , National (1996-97); President, AFMR Foundation (1997-1998)
1984-	American Society for Microbiology
1986-	Infectious Diseases Society of America (Elected to Fellowship, 1993); Member, Training Program Committee (1997-2000); Chairman, Midwest Regional Program Director's Meeting (1999); Member, Annual Meeting Program Committee (2002 -2005)
1988-	Society of Free Radical Biology and Medicine (member, annual meeting program committee, 2017)
1989-	The International Society for Free Radical Research
1989-1995	American Association of Immunologists
1989-	Federation of American Societies for Experimental Biology
1989-	International EPR Society
1990-	Central Society for Clinical Research (elected; Councilor 2006-2008; Vice President 2008-9; President-Elect 2009-2010; President 2010-2011)
1991-1999	American Society for Cell Biology
1992-2012	American Society for Biochemistry and Molecular Biology
1993-	American Society for Clinical Investigation (elected)
1997-2004	Association of Subspecialty Professors (member, Program Development Committee 2001-2002)
2000-	American Association of Physicians (elected)
2003-	Bioiron Society
2004-2011	Association of Professors of Medicine (Annual Program Committee member 2006-2011; Nominations Committee member 2007-2009)
2011-	AAMC Council of Deans (member; Administrative Board Liaison

Bradley E. Britigan, M.D.

July 1, 2022

to GREAT Committee 2015- 2021; member, Administrative Board
2016-2017; member, COD fellow selection committee 2018-2021;
COD representative to NBME 2019-Present)

2011-

2012-2020

Metropolitan Omaha Medical Society

American Physiology Society