

**Elizabeth (Liz) A. Fritz**

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**Education**

**Doctor of Philosophy (Ph.D.)**

Rush University Medical Center, Chicago, Illinois; 1998-2003

Department of Immunology/Microbiology

Graduate Advisor: Kenneth A. Roebuck, Ph.D.

Dissertation Research: Titanium Particles Induce Chemokine Expression in Human Osteoblasts by a NF- $\kappa$ B-mediated Mechanism: Possible Role for Osteoblasts in Periprosthetic Inflammation.

**Bachelor of Science (B.S.)**

University of Illinois at Champaign-Urbana, Illinois; 1992-1996

Major: Microbiology

Minor: Chemistry

**Professional Positions**

2020-Present **Broker Associate – REALTOR®**

RE/MAX Alliance (FTC-South) - Fort Collins, CO

2019-2020 **Broker Associate – REALTOR®**

Keller Williams Realty Partners – Loveland, CO

2018-2019 **Broker Associate – REALTOR®**

Keller Williams Realty Northern Colorado – Fort Collins, CO

2016-2019 **Substitute Teacher, Poudre School District**

2011-2012 **Assistant Professor, Galveston National Laboratory, University of Texas Medical Branch (UTMB), Department of Microbiology and Immunology, Galveston, Texas.**

BSL-4 and ABSL-4 biocontainment research focused on the innate immune response and host-pathogen interactions of filoviruses.

2010-2011 **Research Scientist III, Galveston National Laboratory, University of Texas Medical Branch (UTMB), Department of Microbiology and Immunology, Galveston, Texas.**

BSL-4 and ABSL-4 biocontainment research involving the characterization of Hendra and Nipah virus animal models of disease.

2007-2008 **Scientific Consultant, Prevention Laboratories, LLC.**

Consulted on product testing and product applications for therapeutic and preventative purposes in oncology, bacterial infection and wound healing. Reviewed animal safety studies for product testing and data analysis and compilation of scientific data reports.

2006-2007 **Guest Researcher, US Army Medical Research Institute of Infectious Diseases, Frederick, Maryland.**

Flow cytometry data analysis for disease pathogenesis studies.

2004-2005 **Guest Researcher, Centers for Disease Control, Atlanta, Georgia.**

BSL-4 biocontainment research involving Variola virus animal studies to examine cellular immune response to virus infection. Flow cytometry staining and data analysis, soluble mediator detection (ELISA), and generated organ cell lysates for flow cytometry analysis.

- 2003-2006 **National Research Council Postdoctoral Fellow, US Army Medical Research Institute of Infectious Diseases, Frederick, Maryland.**  
BSL-3 and BSL-4 screening and testing of therapeutic compounds against SARS, Ebola and Marburg viruses. Co-Investigator on ABSL-4 and ABSL-3 animal studies for both filoviruses and monkeypox virus at USAMRIID, as well as ABSL-4 studies for variola virus at the Centers for Disease Control and Prevention in Atlanta, Georgia. Examined cellular immune response in animal models of infection, flow cytometry staining and analysis, generated organ cell lysates, developed RT-PCR assay for Ebola virus detection, soluble mediator detection assays (Bio-Plex, ELISA), virus titration assays, cell culture assays, virus culture, co-culture T-cell response assays.
- 1998-2003 **Doctoral Candidate, Rush University Medical Center, Chicago, Illinois.**  
Investigated the role of osteoblasts and chemokine production by osteoblasts in the chronic inflammatory response to non-biodegradable particles at the bone-prosthesis interface during periprosthetic osteolysis.
- 1996-1998 **Research Associate I, Evanston Northwestern Healthcare Research Institute, Evanston, Illinois.**  
Molecular biology research involving T-cell receptor gene cloning and sequencing for development of a short tandem repeat-based human identification assay.

### **Professional Affiliations**

- Board of American Chemical Society-University of Illinois, Champaign-Urbana; 1992-1994
- American Association for the Advancement of Science; 1999-2001
- Chicago Association of Immunologists; 2001-2003
- Sigma Xi National Honor Society; 2002-2012
- American Association of Immunologists; 2011-2012
- Institute for Human Infections and Immunity (IHII); April 2011-2012
- Sealy Center for Vaccine Development (SCVD); September 2011-2012
- Center for Biodefense and Emerging Infectious Diseases (CBEID); 2011-2012
- University of Texas Medical Branch Faculty Women's Club; 2012
- University of Texas Medical Branch, Women's Faculty Mentoring Group; 2010-2012
- State of Colorado Department of Regulatory Affairs, Division of Real Estate; 2018-Present
- National Association of REALTORS®; 2018-Present
- Colorado Association of REALTORS®; 2018-Present
- Fort Collins Board of REALTORS®; 2018-Present
- Women's Council of REALTORS®; 2021-Present

### **Committee Involvement (Professional and Non-Professional)**

- University of Texas Medical Branch, BSL-4 Exposure Committee (BEC); 2011- 2012
- University of Texas Medical Branch, Galveston National Laboratory Immunology Advisory Council: 2012
- University of Texas Medical Branch Selection Committee 2011: UTMB High School Summer Research Program
- University of Texas Medical Branch Selection Committee 2012: UTMB High School Summer Research Program
- Greta Oppe Elementary PTO Board-Secretary: 2011-2012
- Junior League of Fort Collins – Career Closet Committee: 2012-2014
- Junior League of Fort Collins – Career Closet Committee Chairperson: 2013-2014
- Bacon Elementary PTO – Bacon Bulldog Blitz Committee Co-Chairperson: 2013-2016
- Bacon Elementary PTO – Volunteer Coordinator: 2016-2019
- Young Men's Service League - Philanthropy Liaison: 2021-2022
- Fort Collins Board of REALTORS® – REALTOR® Political Action Committee Member: 2024

### **Professional Training, Certifications, Designations and Clearances**

- National Association of REALTORS® Official Designation - Senior Real Estate Specialist (SRES®): 2025
- Certified Real Estate Negotiator (CREN): 2023
- State of Colorado Department of Regulatory Affairs, Division of Real Estate-Associate Level Real Estate Broker: 2018
- BSL4 Independent User Access: 2011, GNL, UTMB, Galveston, Texas.
- BSL4 Facilities Training: 2011, GNL, UTMB, Galveston, Texas.
- BSL4 Suit Training: 2011, GNL, UTMB, Galveston, Texas.
- BSL3 theoretical and hands-on training: 2010, GNL, UTMB, Galveston, Texas.
- Animal BSL3 (ABSL3) theoretical and hands-on training: 2010, GNL, UTMB, Galveston, Texas.
- Nonhuman Primate (NHP) theoretical training: 2010, GNL, UTMB, Galveston, Texas.
- U.S. Department of Justice Select Agent Clearance: 2010, GNL, UTMB, Galveston, Texas.
- BSL3 and BSL4 Laboratory Training: 2003, USAMRIID, Frederick, Maryland.
- BSL4 Suit Training and Certification (ILC Dover Chemturon Encapsulation Suit): 2003, USAMRIID, Frederick, Maryland.
- USAMRIID Hands-on Powered Air Purifying Respirator Training: 2004, USAMRIID, Frederick, Maryland.
- Department of Defense Security Clearance-SSBI-Top Secret: 2006, USAMRIID, Frederick, Maryland.
- Department of Defense Security Clearance- NAC: 2004, USAMRIID, Frederick, Maryland.
- BD Biosciences Flow Cytometry Training: 2004, BD FACSCalibur Operator Course, BD Biosciences, San Jose, California.
- Good Laboratory Practice (GLP) Training: 2004, USAMRIID, Frederick, Maryland.
- GLPs for Study Directors, Technical Staff, and Management Training: 2004, USAMRIID, Frederick, Maryland.