

**POSITION:** Professor, NCI-Designated Cancer Center  
Director, Cancer Structures and Molecules Program, NCI-Designated Cancer Center

**ADDRESS:** Sanford Burnham Prebys Medical Research Institute  
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## EDUCATION AND TRAINING

1985-1987 Undergraduate Research Assistant, IsoTrace Laboratory, Department of Physics, University of Toronto, Toronto, Canada. Advisor: John Rucklidge.

1987 B.Sc. Chemistry, University of Toronto, Toronto, Canada.

1989 M.Sc. Chemistry, University of Toronto, Toronto, Canada. Advisor: Michael Thompson.

1992 Ph.D. Chemistry, University of Toronto, Toronto, Canada. Advisor Peter M. Macdonald.

1993 - 1995 Postdoctoral Fellow of the Natural Sciences and Engineering Research Council (NSERC) of Canada, University of Pennsylvania, Philadelphia, PA. Advisor: Stanley J. Opella.

1995 - 1998 Postdoctoral Fellow of the Medical Research Council (MRC) of Canada, University of Pennsylvania, Philadelphia, PA. Advisor: Stanley J. Opella.

## PROFESSIONAL EXPERIENCE

1998 - 2000 Assistant Professor, Wistar Institute, Philadelphia, PA.

1999 - 2000 Wistar Institute Assistant Professor of Pharmacology, University of Pennsylvania, Philadelphia, PA.

2000 - 2006 Assistant Professor, Sanford Burnham Prebys Institute, La Jolla, CA.

2006 - 2013 Associate Professor, Sanford Burnham Prebys Institute, La Jolla, CA.

2013 - present Professor, Sanford Burnham Prebys Institute, La Jolla, CA.

2019 - present Scientific Director of the NCI-Designated Cancer Center's Structural Biology Shared Resources.

2020 - present Director of the NCI-Designated Cancer Center Program Cancer Structures and Molecules.

## HONORS AND AWARDS

1985 Natural Sciences and Engineering Research Council (NSERC) of Canada Undergraduate Fellowship.

1988 Biemish Award, Department of Chemistry, University of Toronto, Toronto, Canada.

1988 - 1993 Graduate Open Fellowship, University of Toronto, Toronto, Canada.

1993 - 1994 Natural Sciences and Engineering Research Council (NSERC) of Canada Postdoctoral Fellowship.

1994 - 1997 Medical Research Council (MRC) of Canada Postdoctoral Fellowship.

2019 - present Biophysical Society Council Member.

2020 - present Member of the NIH Macromolecular Structure and Function C (MSFC) Study Section

## SELECTED PUBLICATIONS (Complete publication list is available in [PubMed](#)).

Shin K, Lechtenberg BC, Fujimoto LM, Yao Y, Bartra SS, Plano GV, Marassi FM (2019) **Structure of human Vitronectin C-terminal domain and interaction with Yersinia pestis outer membrane protein Ail.** *Sci Adv* 5, eaax5068 (PMC6739113).

Ryzhov P, Tian Y, Yao Y, Bobkov AA, Im W, Marassi FM (2020) **Conformational states of the cytoprotective protein Bcl-xL.** *Biophys. J.* In press. [Journal cover](#).

Singh C, Lee H, Tian Y, Schesser Bartra S, Hower S, Fujimoto LM, Yao Y, Ivanov SA, Shaikhutdinova RZ, Anisimov AP, Plano GV, Im W, Marassi FM (2020) **Mutually constructive roles of Ail and LPS in Yersinia pestis serum survival.** *Mol. Microbiol.* Mol. Microbiol. 114, 510-520. [Journal cover](#).

Shin K, Kent JE, Singh C, Fujimoto LM, Yu J, Tian Y, Im W, Marassi FM (2020) **Calcium and hydroxyapatite binding site of human vitronectin provides insights to abnormal deposit formation.** *Proc. Natl. Acad. Sci. U. S. A.* 117, 18504-18510

Kent J, Fujimoto LM, Shin K, Singh C, Yao Y, Park SH, Opella SJ, Plano GV, Marassi FM (2020) **Resolving atomic site interactions of the Y. pestis outer membrane protein Ail with human serum in the bacterial cell envelope.** *BioRxiv* DOI: 10.1101/2020.09.23.310672.