

CURRICULUM VITAE

Brian F. Volkman PhD

Professor

Department of Biochemistry

OFFICE ADDRESS:

Medical Education Building
8701 Watertown Plank Rd
Milwaukee, WI 53226

EDUCATION:

1989 B.S., Butler University, Indianapolis, IN
1989 Chemistry, 1 semester, University of New South Wales, Sydney, Australia
1994 PhD, University of California at Berkeley, Berkeley, CA

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1995 - 1997 Postdoctoral Fellow, Biochemistry, University of Wisconsin Madison, Madison, WI
1997 - 2000 Assistant Scientist, Biochemistry, National Magnetic Resonance Facility, University of Wisconsin Madison, Madison, WI
2000 Associate Scientist, Biochemistry, National Magnetic Resonance Facility, University of Wisconsin Madison, Madison, WI

FACULTY APPOINTMENTS:

2000 - 2005 Assistant Professor, Biochemistry, Medical College of Wisconsin, Milwaukee, WI
2005 - 2010 Associate Professor (tenured), Biochemistry, Medical College of Wisconsin, Milwaukee, WI
2010 - Present Professor, Biochemistry, Medical College of Wisconsin, Milwaukee, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

2001 - Present Director, Biomolecular NMR Facility, Medical College of Wisconsin
2010 - Present Member, Cancer Center, Medical College of Wisconsin
2017 - Present Member, Center for Infectious Disease Research, Medical College of Wisconsin
2017 - Present Director, Program in Chemical Biology, Medical College of Wisconsin
2019 - Present Member, Center for Immunology, Medical College of Wisconsin
2020 - Present Co-leader, Cancer Biology Program, Cancer Center, Medical College of Wisconsin
2020 - Present Director, Structural Genomics Unit, Genomic Sciences and Precision Medicine Center, Medical College of Wisconsin
2020 - Present Chair, Idea Award Review Committee, Cancer Center, Medical College of Wisconsin

AWARDS AND HONORS:

1985 National Merit Scholarship Winner
1985 - 1989 Presidential Scholar, Butler University
1985 - 1989 Cislak Fellow, Butler University
1986 Outstanding Student in Freshman Chemistry, Butler University
1986 Butler Student Academic Grant, Holcomb Research Institute
1987 Butler Student Academic Grant, Holcomb Research Institute
1989 Sigma Xi, Butler University Chapter
1989 - 1992 Graduate Research Fellowship, U.S. Department of Education
2014 Excellence Award, Advancing a Healthier Wisconsin (AHW)
2015 Community of Innovators Award, Medical College of Wisconsin
2019 Director's Award for Promising Research, MCW Cancer Center

2020 MERIT Award, NIH/NIAID

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

Biophysical Society
American Chemical Society
Protein Society

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship
2011 - Present PLoS Computational Biology
2018 - Present International Journal of Molecular Sciences
Editorial Board
2001 - 2016 Protein Expression and Purification
Journal Review
Antimicrobial Agents and Chemotherapy
FEBS Letters
FEBS Journal/ European Journal of Biochemistry
Journal of Biological Chemistry
Journal of Biomolecular NMR
Journal of the American Chemical Society
Journal of Inorganic Biochemistry
Journal of Magnetic Resonance
Journal of Molecular Biology
Journal of Virology
Nature Methods
PNAS
Science
Science Signaling
Structure
Chemistry and Biology
Biopolymers
Analytical Chemistry
Nature Communications
Chembiochem
Journal of Medicinal Chemistry
ACS Chemical Biology
Biochemistry
Arthritis and Rheumatism
Frontiers in Immunology
Archives of Biochemistry and Biophysics

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

1996 - 2006 Consulting, Spectrum Research, L.L.C., Madison, WI
2005 - 2011 Oversight Committee, Chemical Proteomics Facility at Marquette (CPFM), Department of Chemistry, Marquette University, Milwaukee, WI
2006 Session Chair, Protein Structure and Function, Great Lakes Regional American Chemical Society Meeting, Milwaukee, WI
2014 - Present Steering Committee, SE WI BIONet; A quarterly biotech networking event for southeast Wisconsin
2014 - Present President and co-founder, Protein Foundry, LLC, Milwaukee, WI
2015 - Present Scientific Advisory Board, CyteGen Corp, Shorewood, WI
2016 Local Host, 47th annual Chicago Area NMR Discussion Group, Medical College of Wisconsin, Milwaukee, WI
2019 Session Chair, Chicago Area NMR Discussion Group, UW-Madison, Madison, WI
2019 - 2020 Member, Organizing Committee, Chicago Area NMR Discussion Group
2020 - Present Chief Science Officer and co-founder, XLock Biosciences, LLC, Milwaukee, WI

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2001 Temporary Member, Grant Review Panel, NIH MBC-2 study section
2003 Grant Review Panel, Wellcome Trust Research Fellowship
2004 Temporary Member, Grant Review Panel, NIH CMI-A study section
2005 Temporary Member, Grant Review Panel, NIH AMCB study section
2005 Grant Review Panel, NIH NCF special study section
2006 Temporary Member, Grant Review Panel, NIH CMI-A study section
2006 Temporary Member, Grant Review Panel, NIH MSF-B study section
2007 Temporary Member, Grant Review Panel, NIH AMCB study section
2008 Temporary Member, Grant Review Panel, NIH CMI-A study section
2008 Temporary Member, Grant Review Panel, NIH MSF-B study section
2008 Temporary Member, Grant Review Panel, NIH AMCB study section
2009 Temporary Member, Grant Review Panel, NIH AMCB study section
2009 Grant Review Panel, NIH Challenge Grants
2010 Temporary Member, Grant Review Panel, NIH AMCB study section
2010 Grant Review Panel, NIH ZRG1 BDA-P special study section
2010 Grant Review Panel, NIH ZRG1 BCMB-B special study section
2011 Grant Review Panel, NIH ZRG1 BCMB-R special study section
2011 Grant Review Panel, NIH ZRG1 IMM-N special study section
2013 Grant Review Panel, NIH ZRG1 BCMV-H special study section
2013 Grant Review Panel, NIH MSF-C study section
2014 - 2018 Full Member, Grant Review Panel, NIH MSF-C study section
2015 Chair, Grant Review Panel, NIH ZRG1 BCMB-S (40) P41 site visit review panel
2016 Grant Review Panel, NIH ZRG1 AARR-K (92) special study section
2020 Grant Review Panel, NIH ZRG1 F04B-T (20) special study section

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**Active****Peer Review**

Title:	Structural Basis for Chemokine Signaling
Source:	NIH Research Project Grant R01 AI058072-06
Role:	Principal Investigator
Dates:	12/01/2003 - 05/31/2025
Direct Funds:	\$805,000
Title:	Structural Analysis of the Mannose 6-Phosphate Receptors
Source:	NIH Research Project Grant R01 DK042667-13
Role:	Co-Investigator
PI:	Nancy M. Dahms, MCW Department of Biochemistry
Dates:	2005 - 2024
Direct Funds:	\$1,250,000
Title:	Sulfotyrosine-guided discovery of small molecule chemokine inhibitors
Source:	NIH Research Project Grant R01 GM097381
Role:	Principal Investigator
Dates:	03/01/2011 - 02/28/2022
Direct Funds:	\$1,250,000
Title:	Structural basis of chemokine receptor

Source: signaling in tumor progression
NCI F30CA196040 (predoctoral NRSA)
Role: Mentor
PI: AB Kleist
Dates: 2016 - 2021

Title: Mechanism behind
CCL21/CCR7-mediated pancreatic
cancer progression
Source: NCI F30CA210587 (predoctoral NRSA)
Role: Co-Mentor
PI: NA Moussouras
Dates: 2016 - 2021

Title: Novel chaperones and
neurodegeneration
Source: NIH/NINDS R01
Role: Co-Investigator
PI: K. Matthew Scaglione, Duke University
Dates: 07/01/2019 - 06/30/2024

Title: CXCR4 as a Target for Colon Cancer
Chemoprevention
Source: NIH/NCI R01 CA240710
Role: Co-Investigator
PI: Marc Bissonnette, University of Chicago
Dates: 07/01/2019 - 06/30/2024

Title: Structure-Function Investigation of
Chemokine-GPCR Signaling in Tumor
Progression and Metastasis
Source: NCI F30CA236182 (predoctoral NRSA)
Role: Mentor
PI: A Dishman
Dates: 2019 - 2023

Title: Development of an engineered CCL20
protein as a lead therapeutic molecule for
psoriasis
Source: NIAMS SBIR Phase II R44
AR074363-01
Role: Co-PI, Chief Science Officer, XLock
Biosciences LLC
Dates: 08/01/2020 - 07/31/2022

Prior

Peer Review

Title: Structure of the Human Chemokine
Lymphotactin
Source: NIH Research Project Grant R01/R21
AI45843
Role: Principal Investigator
Dates: 1999 - 2005
Direct Funds: \$1,050,000

Title: Center for Eukaryotic Structural

Source:	Genomics NIH Pilot Project Grant P50 GM64598 (John L. Markley, PI, University of Wisconsin-Madison)
Role:	Co-Investigator
Dates:	2001 - 2005
Direct Funds:	\$650,000
Title:	Novel Signaling Interactions that Regulate Apoptosis: Structure of the Bax:Ku70 Complex
Source:	MCW Cancer Center Interdisciplinary Research Grant
Role:	Principal Investigator
Dates:	2002 - 2003
Direct Funds:	\$25,000
Title:	Equipment supplement to "Center for Eukaryotic Structural Genomics" P50 GM64598-03
Source:	NIH Pilot Project Grant funds for 600 MHz NMR spectrometer
Role:	Principal Investigator
Dates:	2003 - 2004
Direct Funds:	\$600,000
Title:	Coexpression of the T cell chemoattractant Lymphotactin and costimulatory molecules CD80 and CD86 in a neuroblastoma tumor vaccine
Source:	MCW Cancer Center Interdisciplinary Research Grant
Role:	Principal Investigator
Dates:	2004 - 2006
Direct Funds:	\$25,000
Title:	Specialized Center for Eukaryotic Structural Genomics
Source:	NIH Cooperative Agreement
Role:	Co-Investigator
PI:	John L. Markley, University of Wisconsin-Madison
Dates:	2005 - 2011
Direct Funds:	\$525,653
Title:	Conformational duality in the human chemokine Ltn/XCL1
Source:	NIH Research Project Grant R01 AI063325
Role:	Principal Investigator
Dates:	2005 - 2010
Direct Funds:	\$1,000,000 (no-cost extension in 2010-2011)
Title:	Structural basis of selective activation of the anthrax-killing enzyme PlyG"
Source:	Great Lakes Regional Center of

Role:	Excellence Developmental Project (Olaf Schneewind, PI, University of Chicago
Dates:	Co-Investigator
Direct Funds:	2006 - 2008
	\$100,000
Title:	Structure of the SCAN domain from tumor suppressor protein MZF-1/ZNF42 and its complexes with other zinc-finger transcription factors
Source:	MCW Cancer Center Interdisciplinary Research Grant
Role:	Principal Investigator
Dates:	2006 - 2007
Direct Funds:	\$25,000
Title:	Inhibition of Breast and Prostate Cancer Cell Metastasis with an Engineered Chemokine
Source:	State of Wisconsin's Tax Check-Off Program for Breast Cancer Research
Role:	Principal Investigator
Dates:	2008 - 2010
Direct Funds:	\$144,000
Title:	Structural basis for selective lysis of anthrax and drug-resistant <i>S. aureus</i>
Source:	Great Lakes Regional Center of Excellence Developmental Project (Olaf Schneewind, PI, University of Chicago)
PI:	Principal Investigator
Dates:	2009 - 2011
Title:	500 MHz NMR Spectrometer at the Medical College of Wisconsin
Source:	NIH Shared Instrumentation Grant 1S10RR024665-01
Role:	Principal Investigator
Dates:	2009 - 2010
Direct Funds:	\$500,000
Title:	Medical Scientist Training Program Institutional National Research Service Award
Source:	NIGMS T32 GM080202
Role:	Mentor/Investigator
PI:	JT Barbieri
Dates:	2010 - 2020
Title:	Conformational duality in the human chemokine Ltn/XCL1
Source:	NIH Research Project Grant R56 AI063325
Role:	Principal Investigator
Dates:	2011 - 2012
Title:	Sulfotyrosine-guided discovery of small

Source:	molecule chemokine inhibitors- Equipment supplement NIH Research Project Grant R01 GM097381-01S1
Role:	Principal Investigator
Dates:	2011 - 2012
Direct Funds:	\$84,950
Title:	Sulfonyltyrosine-guided discovery of small molecule chemokine inhibitors- Collaborative supplement
Source:	NIH Research Project Grant 3R01 GM097381-01S2
Role:	Principal Investigator
Dates:	2011 - 2013
Direct Funds:	\$76,020
Title:	Regulated Spindle Orientation During Asymmetric Cell Division
Source:	NIH Research Project Grant 3R01 GM087457-02S1
Role:	Co-Investigator
PI:	Ken Prehoda, University of Oregon
Dates:	2011 - 2013
Direct Funds:	\$53,334
Title:	CXCL12 Treatment as a Novel Therapeutic Paradigm for Breast Cancer
Source:	WBCS Breast & Prostate Cancer Research Grant
Role:	Co-Investigator
PI:	Michael B. Dwinell
Dates:	2011 - 2013
Direct Funds:	\$0
Title:	Abscisic acid (ABA) signal transduction in plants
Source:	University of California-Riverside- Syngenta-Prime Sponsor
Role:	Co-Investigator
PI:	Francis Peterson, MCW Department of Biochemistry
Dates:	12/01/2012 - 12/31/2015
Direct Funds:	\$84,000
Title:	In Silico Screening of Molecules for Inhibition of CCR6 /CCL20 in Psoriasis
Source:	National Psoriasis Foundation Lutto Translational Research Grant
Role:	Co-Investigator
PI:	Sam Hwang, MCW Department of Dermatology
Dates:	2012 - 2013
Direct Funds:	\$100,000
Title:	Targeting the CXCL12 CXCR4 Axis towards the Therapy of Metastatic

Source:	Cancers NIH Research Project Grant 1R01 CA173056-01A1
Role:	Co-Investigator
PI:	Rongshi Li, University of Nebraska
Dates:	04/01/2013 - 03/31/2016
Direct Funds:	\$49,800
Title:	Function and targeting of CCR6/CCL20 in autoimmune psoriasiform skin disease
Source:	NIH Research Project Grant R01
Role:	Co-Investigator
PI:	Sam Hwang
Dates:	09/01/2013 - 08/31/2020
Direct Funds:	\$212,500
Title:	Structural and energetic origins of metamorphic protein folding
Source:	NIH Research Project Grant R56 AI013225
Role:	Principal Investigator
Dates:	2013 - 2015
Direct Funds:	\$235,000
Title:	Targeting CCL28 as therapy for obstructive lung disease
Source:	NIH Research Project Grant R56 AI112519
Role:	Co-PI
PI:	Mitchell Grayson
Dates:	2014 - 2015
Direct Funds:	\$250,000
Title:	High Performance Digital Console and Sample Jet
Source:	NIH Shared Instrumentation Grant S10 OD020000-01
Role:	Principal Investigator
Dates:	03/01/2015 - 02/29/2017
Direct Funds:	\$600,000
Title:	Targeting CCL28 as therapy for obstructive lung disease
Source:	NIH Research Project Grant R01AI120655
Role:	Principal Investigator
Dates:	06/15/2015 - 07/31/2020
Direct Funds:	\$250,000
Title:	A Structure-Based Drug Discovery Resource for Clinical and Basic Scientists
Source:	AHW-Research and Education Program
Role:	Co-Investigator
PI:	R. Blake Hill, MCW Department of Biochemistry
Dates:	07/01/2015 - 06/30/2017

Direct Funds:	\$100,000
Title:	Selective uptake and hydrolysis of cholesteryl esters by SR-BI
Source:	NIH Research Project Grant R01 HL058012
Role:	Co-Investigator
PI:	Daisy Sahoo, MCW Department of Medicine
Dates:	08/18/2015 - 06/30/2020
Direct Funds:	\$250,000
Title:	Therapeutic delivery of ADP-ribosylarginine hydrolase, SBIR Topic 91, Phase I
Source:	NHLBI SBIR Contract 268201500005C-0-0-1
Role:	President, Protein Foundry, LLC
PI:	Chen Chen
Dates:	09/15/2015 - 03/14/2017
Title:	Targeting RPA-XPA interactions towards combinatorial cancer therapeutics
Source:	MCW Cancer Center Multi-PI MU-MCW Collaboration Award
Role:	Principal Investigator
Dates:	03/01/2018 - 02/28/2019
Direct Funds:	\$40,000
Title:	Translational Investigation of a novel, engineered variant of CCL20 as a therapeutic agent for psoriasis
Source:	National Psoriasis Foundation Translational Research Grant
Role:	Principal Investigator
Dates:	08/01/2018 - 12/31/2020
Title:	Development of an engineered CCL20 protein as a lead therapeutic molecule for psoriasis
Source:	NIAMS SBIR Phase I R43 AR074363-01
Role:	Co-PI, President, Protein Foundry, LLC
Dates:	09/11/2018 - 12/31/2019
Title:	Sulfotyrosine-guided discovery of small molecule chemokine inhibitors – equipment supplement
Source:	NIH Research Project Grant 3R01 GM097381-06S1
Role:	Principal Investigator
Dates:	03/01/2019 - 02/28/2020
Direct Funds:	\$200,000
Title:	800 MHz NMR Spectrometer for Southeast Wisconsin

Source:	NIH S10 OD025000-01A1
Role:	Principal Investigator
Dates:	05/01/2019 - 04/30/2020

Non-Peer Review

Title:	POC Study – SDF1 dimer as an inhibitor of inflammatory bowel diseases
Source:	MCW Office of Technology Development
Role:	Principal Investigator
Dates:	2009 - 2010
Direct Funds:	\$10,000

Title:	POC Study – SDF1 dimer as an inhibitor of EAE, a model for multiple sclerosis
Source:	MCW Office of Technology Development
Role:	Principal Investigator
Dates:	2009 - 2010
Direct Funds:	\$11,710

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Medical College of Wisconsin, Department of Biochemistry, Milwaukee, WI, 1999
 Marquette University, Department of Chemistry, Milwaukee, WI, 2005
 UWM Research Foundation/MCW Office of Technology Development First Look Forum, University Club, Milwaukee, WI, "Blocking metastasis with novel chemokine inhibitors", 05/10/2010
 IUW-Milwaukee Chemistry and Biochemistry Awards Day, Invited Speaker "Extreme protein dynamism: functional unfolding in the native state", 05/10/2011 - Present

Regional

NMR as a Structural Tool for Macromolecules: Current Status and Future Directions Symposium, Indiana University Purdue University at Indianapolis, Indianapolis, IN, 1994 - Present
 Beyond Protein Structure, Pfizer, Inc.-Beckman Institute Symposium, Champagne-Urbana, IL, 1996 - Present
 Mayo Clinic, Department of Biochemistry and Molecular Biology, Rochester, MN, 1998 - Present
 University of Missouri-Kansas City, School of Biological Sciences, Kansas City, Missouri, 1999 - Present
 Chicago Area NMR Discussion Group Meeting, Searle Company, Skokie, IL, 1999 - Present
 Butler University, Department of Chemistry, Indianapolis, IN, 2000 - Present
 University of Wisconsin, Department of Biochemistry, Madison, WI, 2000 - Present
 University of Wisconsin, School of Pharmacy, Madison, WI, 2000 - Present
 Bruker Midwest NMR Meeting, Milwaukee, WI, 2001
 University of Iowa, Department of Medicinal and Natural Products Chemistry, Iowa City, IA, 2002 - Present
 University of Illinois-Chicago, Department of Biochemistry, Chicago, IL, 2002 - Present
 Discussion Leader, International Structural Genomics Organization Protein Structure Initiative Workshop on NMR in Structural Genomics, Madison, WI, 2002 - Present
 University of Wisconsin-Green Bay, Department of Chemistry, Green Bay, WI, 2003 - Present
 Wayne State University, Department of Biochemistry, Detroit, MI, 2003 - Present
 Lawrence University, Department of Chemistry, Appleton, WI, 2004 - Present
 Mayo Clinic, Department of Biochemistry and Molecular Biology, Rochester, MN, 2004 - Present
 Rosalind Franklin University, Department of Biochemistry and Molecular Biology, North Chicago, IL, 2005 - Present
 Great Lakes Regional Meeting of the American Chemical Society, Milwaukee, WI, 2006
 Mayo Clinic, Department of Immunology, Rochester, MN, 2006 - Present
 University of Iowa, Department of Biochemistry, Iowa City, IA, 2007 - Present
 Keynote speaker, GRASP-NMR (Great Plains Annual Symposium on Proteins and Biomolecular NMR), Lawrence, KS. "Novel strategies for chemokine inhibition guided by protein NMR", 09/25/2009 -

Present

University of Illinois-Chicago, Department of Biochemistry, Chicago, IL, 12/02/2009 - Present
7th Annual Meeting, Great Lakes Regional Center for Excellence in Biodefense and Emerging Infectious Diseases, Chicago, IL, 12/05/2009 - Present
University of Illinois-Chicago, Chicago Biomedical Consortium, Chicago, IL, 02/01/2010 - Present
Lawrence University, Department of Chemistry, Appleton, WI, "Structure-based drug discovery to control cell migration", 03/05/2010 - Present
8th Annual Meeting, Great Lakes Regional Center for Excellence in Biodefense and Emerging Infectious Diseases, Chicago, IL. "A self-unfolding mechanism for autoinhibition of PlyG", 09/29/2010 - Present
Teva Innovative Ventures, MG&E Innovation Center, Madison, WI, "Blocking metastasis with novel chemokine inhibitors", 10/13/2010 - Present
Loyola University Stritch School of Medicine, Department of Pharmacology, Chicago, IL, 12/02/2010 - Present

National

37th Experimental Nuclear Magnetic Resonance Conference, Pacific Grove, CA, 1996 - Present
Frontiers of NMR in Molecular Biology, Keystone Symposium, Breckenridge, CO, 1997 - Present
39th Experimental Nuclear Magnetic Resonance Conference, Pacific Grove, CA, 1998 - Present
Berea College, Department of Chemistry, Berea, KY, 1998 - Present
Columbia University, Department of Biochemistry and Biophysics, New York, NY, 1998 - Present
41st Experimental Nuclear Magnetic Resonance Conference, Pacific Grove, CA, 2000 - Present
16th Symposium of the Protein Society, San Diego, CA, 2002 - Present
University of Utah, Department of Biochemistry, Salt Lake City, UT, 2002 - Present
University of Oregon, Institute for Molecular Biology, Eugene, OR, 2002 - Present
University of North Carolina, Department of Biochemistry and Biophysics, Chapel Hill, NC, 2004 - Present
Rockefeller University, Laboratory of Molecular Biophysics, New York, NY, 2004 - Present
3rd International Conference on Structural Genomics, Washington D.C., 2004 - Present
Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, 2004 - Present
LSU Health Sciences Center, Department of Biochemistry and Molecular Biology, New Orleans, LA, 2005 - Present
University of Oregon, Department of Chemistry, Eugene, OR, 2006 - Present
2nd annual Computational Biology Conference, National Institute of Environmental Health Sciences, Research Triangle Park, NC, 2006 - Present
4th Annual Meeting, Great Lakes Regional Center for Excellence in Biodefense and Emerging Infectious Diseases, Hilton Head, SC, 2006 - Present
21st Annual Symposium of The Protein Society, Boston, MA, 2007 - Present
Chemokines and Chemokine Receptors, Keystone Symposium, Keystone, CO, 2008 - Present
6th Annual Meeting, Great Lakes Regional Center for Excellence in Biodefense and Emerging Infectious Diseases, Hilton Head, SC, 2008 - Present
Plenary lecture, Keystone Symposium - Frontiers of NMR in Biology, Santa Fe, NM, 2009 - Present
University of Maryland Biotechnology Institute, Rockville, MD, 2009 - Present
University of California-Riverside, Riverside, CA, 01/13/2010 - Present
University of South Florida, Tampa, FL, "Controlling cell migration with chemokine gymnastics", 03/12/2010 - Present
University of Missouri, "Controlling cell migration with chemokine gymnastics", Columbia MO, 04/09/2010 - Present
6th Annual National RCE Meeting, Las Vegas, NV, "Structural basis for selective lysis of anthrax by phage lysins", 04/13/2010 - Present
Johnson & Johnson Pharmaceutical R&D, Exton, PA, 09/06/2010 - Present

International

18th International Conference on Magnetic Resonance in Biological Systems, Tokyo, Japan, 1998
19th International Conference on Magnetic Resonance in Biological Systems, Florence, Italy, ., 2000
Plenary Lecture, 2nd Portuguese-Brazilian NMR Conference, Sintra, Portugal, 2003
Invited Lecture, 2nd Asia-Pacific NMR Conference, Kenting, Taiwan, 2007
Invited speaker, Gordon Research Conference on Chemotactic Cytokines, Aussois, France, 2008
Seminar, University of Montreal, Montreal, Quebec, Canada, 2009

Invited speaker, 34th Lorne Conference on Protein Structure and Function, Lorne, VIC, Australia, 2009
Invited speaker, "Structure-based inhibition of CXCL12 activity", Gordon Research Conference on Chemotactic Cytokines, Ciocco, Italy, 2010

COMMITTEE SERVICE:

Medical College of Wisconsin

2002 - 2008 Graduate Studies Council Nominating Committee, MCW
2003 - 2008 Recruiting Committee Chairman, Interdisciplinary Program in Biomedical Sciences, MCW
2003 - 2008 Graduate Studies Council, MCW
2003 - 2004 Information Services Advisory Committee, MCW
2003 - 2008 Recruiting Director, Biochemistry Graduate Program, MCW
2003 - 2008 Chairman, Graduate Studies Council Nominating Committee, MCW
2005 - Present Protein and Nucleic Acid Facility Steering Committee, MCW
2005 MCW Advancing a Healthier Wisconsin Grant Review Panel, MCW
2006 Faculty Council Ad hoc Committee on Information Technology, MCW
2006 - Present MCW Core Facilities Committee
2006 Reviewer, Wisconsin Breast Cancer Showhouse Research Program, MCW
2006 - 2009 Faculty Council Biochemistry Dept representative
2008 - Present Reviewer, Wisconsin Breast Cancer Showhouse Research Program, MCW
2009 Biochemistry Chair Search Committee (Dept. representative), MCW
2009 ACS Pilot Research Grant Review Committee, MCW
2010 - 2011 Chair, Biochemistry Structural Biology Search Committee, MCW
2011 ACS Pilot Research Grant Review Committee, MCW

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

2000 - Present Medical Biochemistry: Case-based discussion preceptor

Graduate Student Education

2000 - 2006 Biochemistry of the Cell (Grad 16201): Lecturer
2002 - Present Protein Chemistry (Biochem 02222): Lecturer and Course Director
2003 - Present Biophysical Techniques in Biochemistry: Lecturer
2007 Structural Basis of Macromolecular Interactions: Lecturer
2007 Research Ethics Discussion Panelist "Experimental Design and Data Collection"
2010 Biomolecular NMR: Structure and Molecular Recognition: Course director and lecturer

EXTRAMURAL TEACHING:

Medical Student Education

2005 University of Aveiro, Aveiro, Portugal, , Department of Chemistry; Course: Advanced Biomolecular Techniques in Biology/Biochemistry

Graduate Student Education

2005 Rosalind Franklin University of Medicine and Science, Graduate program in biochemistry and molecular biology; Course: Physical Biochemistry
2007 Rosalind Franklin University of Medicine and Science, Graduate program in biochemistry and molecular biology; Course: Physical Biochemistry

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

Petar Duvnjak, MCW, 2004 - 2005 Summer lab asst
Richard Lennertz, MCW, 2007 MSTP
Katelin Engerer, MCW, 2008 MSTP
Michael Larson, MCW, 2009 MSTP

Graduate Students

Students Advised

Jeremy Nichols, MCW, 2001 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Christopher Veldkamp, Ryan McAndrew, MCW, 2002 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Jason Kowalski, Mariam Hartley, Chris Pawela, John Uselding, MCW, 2003 Rotation students, MCW Interdisciplinary Program in Biomedical Sciences
Tayyiba Khan, Daisy Deng, MCW, 2004 Rotation students, MCW Interdisciplinary Program in Biomedical Sciences
Jessica Weber, Todd Wingers, MCW, 2005 Rotation students, MCW Interdisciplinary Program in Biomedical Sciences
Adam Dubis, MCW, 2006 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Joshua Wiener, Aaron Kittel, Dustin Whitney, MCW, 2007 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Jamie Wieting, Justin Reitsma, Joshua Ziarek, Andrew Karalewitz, Gabriella Papale, MCW, 2008 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Steven Johnson, MCW, 2009 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences
Anthony Getschman, Maxime Heroux, MCW, 2010 Rotation students, MCW Interdisciplinary Program in Biomedical Sciences
Alexandra Chadwick, MCW, 2011 Rotation student, MCW Interdisciplinary Program in Biomedical Sciences

PhD Students Advised

Christopher Veldkamp, MCW, 2002 - 2006 Structural Studies of the stromal cell-derived factor-alpha/CXCL12 monomer-dimer equilibrium by multidimensional NMR and fluorescence spectroscopy”
Dustin Whitney, MCW, 2006 - Present
Joshua Ziarek, MCW, 2007 - Present
Jamie Wieting, MCW, 2008 - Present
Anthony Getschmann, MCW, 2011 - Present

MS Students Advised

Adam Harder, MCW, 2005 Non-Thesis degree
Joshua Weiner, MCW, 2007 - 2010

Committees

Christopher Veldkamp, MCW, 2006
Blythe Janowiak, MCW, 2006
Jeremy Nichols, MCW, 2006
Michael Wendt, MCW, 2007
Laura Ristow, MCW, Pending
David Anderson, MCW, Pending
Andrew Karalewitz, MCW, Pending
Tyce Kearn, MCW, Pending
Gabriella Papale, MCW, Pending
Patrick Pennington, MCW, Pending

Clinical/Research Fellows

Robbyn Tuinstra, PhD, MCW, 2004 - 2007 Post-Graduate Mentor
Christopher Veldkamp, PhD, MCW, 2006 - 2009 Post-Graduate Mentor

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Undergraduate Students

Margie Li, Duke Univ., 2006 - 2007 Summer lab asst
Christopher Woytovich, Columbia Univ, 2008 SPUR program
Carol Platt, Univ. of Chicago, 2008 - 2009 NIH summer lab asst
Nathan Murray, Univ. of Illinois, 2009 - 2010 NIH summer lab asst

Graduate Students

PhD Students Advised

E. Sonay Kuloglu, Univ. of Wisconsin-Madison; Dept. of Biochemistry, 2002 “Structure–Function Studies of the Human Chemokine Lymphotactin and Its Equilibrium Between Two Highly Divergent Conformational States”
Merideth Burkhart, Northwestern Univ. PhD program, 2004 SPUR program
Tina Liu, Harvard Univ. PhD program, 2004 - 2005 Summer lab asst
John C. Haugner, Univ. of Minnesota PhD program, 2006 SPUR program
Harihar Basnet, UCSD, 2007 SPUR progra

PhD Committees

Elizabeth M. Baden, Mayo Graduate School, 2009
Janice Velos, Brandeis University, 2009

Clinical/Research Fellows

Betsy L. Lytle, PhD, Univ. of Rochester, 2001 - 2010 Post-Graduate Mentor
Francis C. Peterson, PhD, Ohio State University, 2001 - 2004 Post-Graduate Mentor
E. Sonay Kuloglu, PhD, Univ. of Wisconsin-Madison, 2002 - 2003 Post-Graduate Mentor
Sujatha Sampath, PhD, IUC, Indore, India, 2003 - 2004 Post-Graduate Mentor
Robert Tyler, PhD, University of Montana, 2006 - Present Post-Graduate Mentor
Jorge Da Silva Dias, PhD, Universidade Nova de Lisboa, 2007 - Present Post-Graduate Mentor
Norberto De la Cruz, PhD, University of Wisconsin-Madison, 2007 Post-Graduate Mentor
Snjezana Kutlesa, PhD, University of Tubingen, 2008 Post-Graduate Mentor
Tomonori Takekoshi, MD, PhD, University of Tokyo, 2010 - Present Post-Graduate Mentor
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Editorials, Letters to Editor, Other

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2. USPTO Non-provisional application 12/380,308 filed 2/26/2009, Engineered CXCL 12 Alpha Locked Dimer Polypeptide Brian F. Volkman, Christopher T. Veldkamp, Francis C. Peterson, Thomas Sakmar, and Christoph Seibert; MCW #1548; Q&B #650053.00133. Major provisions allowed; final issue pending.
3. Invention disclosure, filed July 26, 2006, Procedure for on-column refolding of recombinant chemokines from protein inclusion bodies Brian F. Volkman, Francis C. Peterson and Christopher T. Veldkamp.
4. Invention disclosure, filed June 20, 2006, Plasmid DNA for expression of mutant human chemokine XCL1/Ltn-V21C/V59C Brian F. Volkman and Francis C. Peterson.

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