

Curriculum Vitae

Binghe Wang (王炳和)

Current position: Professor and Chair, Department of Chemistry, Georgia Research Alliance Eminent Scholar in Drug Discovery, and Georgia Cancer Coalition Distinguished Cancer Scientist
Director, Center for Diagnostics and Therapeutics
Co-Director, Center for Biotechnology and Drug Design

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Personal

Citizenship: USA

Education

Ph.D. May 1991, Department of Medicinal Chemistry, School of Pharmacy, University of Kansas.
B.S. July 1982, Department of Medicinal Chemistry, College of Pharmacy, Beijing Medical University, Beijing, China.

Research Interests

- 1) Organic/Medicinal chemistry: Design and synthesis of new imaging and therapeutic agents targeted on cancer and microbial pathogens; drug delivery
- 2) Bioorganic chemistry/molecular recognition: Development of fluorescent sensors for the recognition and analysis of molecules of biological importance

Experiences

July 1, 2011-present	Chair, Department of Chemistry, Georgia State University
July 1, 2011-present	Co-Director, Center for Biotechnology and Drug Design
2009-present	Director, Center for Diagnostics and Therapeutics, Georgia State University

July 2003-present	Professor, Georgia Research Alliance Eminent Scholar, Georgia Cancer Coalition Distinguished Cancer Scientist, Department of Chemistry, Georgia State University
2003-present:	Member, Center for Drug Discovery, University of Georgia.
June 2000-June 2003:	Associate Professor with tenure, Department of Chemistry, North Carolina State University
August 1998-June 2003	Genomic Science Faculty and Biotech faculty, North Carolina State University
August 1996 to June 2000	Assistant Professor, Department of Chemistry, North Carolina State University
January 1994 to July 1996	Assistant Professor, Department of Medicinal Chemistry and Pharmaceutics, College of Pharmacy, University of Oklahoma Health Sciences Center
August 1992 to Dec. 1993	Post-doctoral research associate with Professor Ronald T. Borhardt, Department of Pharmaceutical Chemistry, School of Pharmacy, University of Kansas
January 1992 to July 1992	Post-Doctoral research associate with Professor Victor J. Hruby, Department of Chemistry, University of Arizona
May 1991 to Dec. 1991	Post-doctoral research associate with Professor Kristin Bowman-James, Department of Chemistry, University of Kansas
August 1985-May 1991	Graduate research assistant with the late Professor Mathias P. Mertes and Professor Kristin Bowman-James, Department of Medicinal Chemistry, School of Pharmacy, University of Kansas
August 1984-August 1985	Graduate Teaching and Research Assistant, Department of Chemistry, University of British Columbia, Vancouver, Canada
August 1982-July 1984	Research Assistant, Department of Medicinal Chemistry, Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China

Honors, Awards, and Recognitions

- 1) Editor-in-Chief, *Medicinal Research Reviews*, since January 1, 2001 (Impact factor: 10.02, ranked #1 among all medicinal chemistry journals worldwide)
- 2) Book Series Editor, "Wiley Series in Drug Discovery and Development," since 2004.
- 3) NIH Study Section Memberships: Permanent membership on Synthetic and Biological Study Section A (SCB-A, 2011-2017) and over 30 panels over the last 10 years

- 4) Distinguished Alumni Professor Award, Georgia State University, 2007
- 5) Outstanding Faculty Scholarship Award, Georgia State University College of Arts and Sciences, 2007
- 6) Member of Editorial Advisory Board, Chemical Biology and Drug Design (Formerly *J. Peptide Res.*), Since June 2005
- 7) Harris Distinguished Lecturer, September 6, 2007, University of Oklahoma College of Pharmacy.
- 8) Member of External Advisory Board, Center for Cancer Research and Therapeutic Development (CCRTD)/RCMI (Research Center in Minority Institutions), Clark Atlanta University, Atlanta, GA, since 2005.
- 9) Member of Advisory Review Committee, Georgia Cancer Coalition, 2005-2008.
- 10) Member of Editorial Advisory Board, Letters in Drug Design & Discovery, September 2002-2008.
- 11) Member of Editorial Board, *J. Chinese Pharm. Sci.*, since 2007.
- 12) Member of Editorial Board, *Acta Pharmaceutica Sinica*, since 2005.
- 13) Scientific Advisory Board, National Key Lab of Natural and Biomimetic Drugs, Beijing University, Beijing, China, since 2005.
- 14) Scientific Advisory Board Member, Beijing Key Lab for the Discovery of Bioactive Compounds and Medicinal Chemistry
- 15) Chang-Jiang Lecture Professor, Shandong University College of Pharmacy, 2007-2010
- 16) Chunhui Guest Professorship, Lanzhou University, Lanzhou, China, since 2005.
- 14) Member of Editorial Advisory Board, *Current Medicinal Chemistry*, June 1999-June 2002.
- 15) Member, Long-rang Planning Committee, American Chemical Society, Division of Medicinal Chemistry, 2002-2004.
- 16) Established Investigator Award, American Heart Association, 1998.
- 17) FIRST Award, National Institutes of Health, 1995.
- 18) Oklahoma Society of Hospital Pharmacists Outstanding Faculty Award, 1995-1996 (for teaching).

- 19) Kappa Psi Outstanding Faculty Award, College of Pharmacy, University of Oklahoma Health Sciences Center, 1995-1996 (for teaching).
- 20) Kappa Epsilon Outstanding Faculty Award, College of Pharmacy, University of Oklahoma Health Sciences Center, 1995-1996 (for teaching).
- 21) Chairman, American Chemical Society, Oklahoma Section, 1995.
- 22) Graduation with Honors, Ph.D., May 1991, University of Kansas.
- 23) Irsay-Dahle award for outstanding graduate student, Department of Medicinal Chemistry, University of Kansas, October 1990.
- 24) National Fellowship for Studying Abroad, Ministry of Education, China, 1984.
- 25) Honor student, May 1982, School of Pharmacy, Beijing Medical University.

Seminars and Other Invited Presentations

- 1) 1995 Conference on Pharmaceutical Science and Technology: Symposium on Drug Delivery Systems August 22-25, 1995, Chicago, Illinois.
- 2) Chiron Diagnostics, Corp.; East Walpole, MA, August 11, 1997.
- 3) Sarco, Inc.; Durham, NC, February 9, 1998.
- 4) Antisense and Gene Therapy Discussion Group, School of Medicine, University of North Carolina, Chapel Hill, April 23, 1998.
- 5) Virginia Commonwealth University College of Pharmacy, Richmond, VA, October 2, 1998.
- 6) Research Triangle Institute, Durham, NC, December 10, 1998.
- 7) Department of Chemistry, University of Alabama, Birmingham, Alabama, January 8, 1999
- 8) Department of Chemistry, East Carolina University, Greenville, North Carolina, January 29, 1999
- 9) Department of Chemistry, Georgetown University, Washington DC, February 17, 1999
- 10) Department of Chemistry, University of Maryland, College Park, MD, February 18, 1999.
- 11) Department of Chemistry and Biochemistry, University of Delaware, Newark, DE, February, 19, 1999.
- 12) Neuropharmacology Laboratory, National Institute of Environmental Health Sciences, February 27, 1999.

- 13) Department of Chemistry, University of Missouri, Columbia, MO, March 10, 1999.
- 14) University of Kansas, Lawrence, KS, March 11, 1999.
- 15) Department of Biology, North Carolina Central University, Durham, NC, March 26, 1999.
- 16) University of North Carolina at Pembroke, February 1, 2000.
- 17) College of Pharmacy, University of Illinois at Chicago, April 14, 2000.
- 18) North China Pharmaceutical Group, Inc., Shijiazhuang, China, May 29, 2000.
- 19) Beijing Medical University, School of Pharmaceutical Sciences, Beijing, China, May 31, 2000.
- 20) Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China, June 1, 2000.
- 21) Beijing Institute of Pharmacology and Toxicology, Beijing, China, June 2, 2000.
- 22) Department of Chemistry, Peking University, Beijing, China, June 2, 2000.
- 23) Peking University Health Sciences Center, Beijing, China, June 13, 2001.
- 24) Shanghai Institute of Materia Medica, China, June 14, 2001.
- 25) Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China, June 18, 2001.
- 26) College of Pharmacy, University of North Carolina, Chapel Hill, November 15, 2001.
- 27) Department of Chemistry, Wayne State University, Detroit MI, December 12, 2001.
- 28) Sensors for Medicine and Sciences, Germantown, MD, May 8, 2002.
- 29) The 28th National Medicinal Chemistry Symposium, San Diego, CA, June 8-12, 2002.
- 30) Department of Chemistry and Biochemistry, Georgia State University, Atlanta GA, September 6, 2002.
- 31) College of Pharmacy, Campbell University, Buies Creek, NC, September 20, 2002.
- 32) BD Technologies, RTP, NC, February 11, 2003.
- 33) CIBA Vision, Duluth, GA, March 10, 2003.
- 34) Department of Chemistry, Tulane University, March 31, 2003.
- 35) College of Pharmacy, Rutgers University, May 22, 2003.

- 36) Department of Chemistry, Texas A&M University, September 25, 2003
- 37) Department of Chemistry, Purdue University, October 9, 2003
- 38) Department of Chemistry and Biochemistry, Utah State University, November 12, 2003
- 39) Young Supramolecular Chemists Workshop, Sanibel, Fl, January 10-14, 2004.
- 40) Department of Chemistry and Biochemistry, Auburn University, February 19, 2004
- 41) Department of Chemistry, University of Virginia, March 5, 2004.
- 42) Georgia Cancer Coalition Cancer Research Conference (Drug Discovery session) at Chateau Elan Resort, May 6-7, 2004
- 43) Department of Chemistry, and Complex Carbohydrate Research Center, University of Georgia, September 30, 2004
- 44) Enplas Lecture, Kennesaw State University, October 12, 2004
- 45) Department of Biology, Clark Atlanta University, October 29, 2004
- 46) Institute of Materia Medica, Chinese Academy of Medical Sciences, May 31, 2005.
- 47) Department of Chemistry, Sichuan University, China, June 7, 2005
- 48) Department of Chemistry, Lanzhou University, Lanzhou, China, June 9, 2005
- 49) Frontiers of Organic and Bioorganic Chemistry (The first Sino-US Chemistry Professors Conference), June 13, 2005, Tianjin, China
- 50) Carbohydrate Gordon Conferences, Tilton, NH, June 19-24, 2005
- 51) Emory University Winship Cancer Center-Brain Cancer Group, August 24, 2005.
- 52) Emory University Winship Cancer Center Elkin Lecture series, September 16, 2005
- 53) Georgia Cancer Summit, Atlanta, GA, November 3, 2005.
- 54) A symposium on "Chemical Sensors, Biosensors and Sensing Technologies" at Pacifichem 2005, December 15-20, 2005, Hawaii.
- 55) Augusta State University, Keynote lecture, 7th Phi Kappa Phi Students Research and Fine Arts Conference, March 15, 2006
- 56) Symposium on Carbohydrate Recognitions at the 231st American Chemical Society Meeting, Atlanta, Georgia, March 26-30, 2006.

- 57) Department of Chemistry, University of Alberta, Canada, May 23, 2006.
- 58) Department of Chemistry, University of Washington, Seattle, Washington, May 25, 2006.
- 59) Department of Medicinal Chemistry, University of Kansas, June 12, 2006
- 60) Frontiers of Organic and Bioorganic Chemistry (The 2nd Sino-US Chemistry Professors Conference), July 8-9, 2006, Shanghai, China
- 61) Lanzhou International Symposium on Organic and Medicinal Chemistry, July 10-11, 2006, Lanzhou, China
- 62) School of Pharmacy, Shandong University, Jinan, China, July 18, 2006
- 63) IMAT Symposium, NCI, September 7-8, 2006, Washington, DC.
- 64) Department of Chemistry, Louisiana State University, September 15, 2006
- 65) College of Pharmacy, University of Georgia, October 16, 2006
- 66) The Fifth Chinese Medicinal Chemistry Symposium, November 3-7, 2006, Nanjing, China
- 67) Valdosta State University and ACS-South Georgia Section, November 27, 2006
- 68) Department of Chemistry, State University of New York-Buffalo, December 8, 2006
- 69) Department of Chemistry, University of South Florida, Tampa, Florida, Jan 11, 2007
- 70) World Precisions, Sarasota, Florida, Jan 12, 2007
- 71) The 3rd Sino-US Chemistry Professors Conference, Wuhan, China, June 1-2, 2007
- 72) Beijing University Health Sciences Center, College of Pharmaceutical Sciences, June 7, 2007
- 73) Shandong University College of Pharmacy, Shandong, China, June 13, 2007
- 74) Department of Biology, Georgia State University, Atlanta, Georgia, July 13, 2007
- 75) Welch Allyn, Skaneateles Falls, NY, August 16, 2007
- 76) Department of Chemistry, University of New Orleans, August 31, 2007
- 77) University of Oklahoma, College of Pharmacy Distinguished Lecture Series, September 5, 2007
- 78) College of Pharmacy, Matt Mertes Memorial Symposium, October 29, 2007
- 79) Rega Institute for Medical Research, Minderbroedersstraat 10, Leuven, Belgium, November 14, 2007

- 80) Carlsberg Laboratories, Copenhagen, Denmark, November 16, 2007
- 81) Department of Cellular Biology, University of Georgia, November 27, 2007
- 82) Department of Chemistry, Portland State University, Portland, Oregon, February 22, 2008
- 83) 16th Annual Suddath Symposium, March 7-8, 2008, Georgia Institute of Technology
- 84) Department of Chemistry, University of California-Davis, March 27, 2008
- 85) Dipartimento di Chimica, University of Florence, April 7, 2008
- 86) Department of Chemistry, University of Southern Mississippi, April 18, 2008
- 87) The 2008 Research Symposium of the Georgia Cancer Coalition, Lake Oconee, May 11-12, 2008
- 88) Nucleic Acid Club of Atlanta meeting, May 22, 2008
- 89) College of Pharmacy, China Pharmaceutical University, June 3, 2008
- 90) College of Pharmacy, Shandong University, June 6, 2008
- 91) The Fourth Annual Sino-US Chemistry Professors Conference, Beijing, China, June 12-13, 2008
- 92) Joint International Symposium on Macrocyclic & Supramolecular Chemistry, Las Vegas, July 13-18, 2008
- 93) Biotechnology Symposium Honoring Roy Doi, Georgia State University, August 14, 2008
- 94) Department of Chemistry, University of New Mexico, August 29, 2008.
- 95) Department of Medicinal Chemistry, University of Minnesota, September 15, 2008
- 96) Department of Chemistry, Virginia Tech, September 26, 2008
- 97) The 4th Carbohydrate and Glycobiology Symposium, October 3-4, 2008
- 98) College of Pharmacy, Fudan University, October 8, 2008
- 99) College of Chemistry and Chemical Engineering, Lanzhou University, October 10, 2008
- 100) College of Chemistry, Xiamen University, October 13, 2008
- 101) Ninth Principal Investigators (PI) Meeting for the Innovative Molecular Analysis Technologies (IMAT) Program, Boston, October 27, 2008
- 102) Anacor Pharmaceutical s, Inc., Palo Alto, CA, November 21, 2008

- 103) NIH-NIGMS Glycan Array workshop, December 8, 2008
- 104) Johns Hopkins University High Throughput Screening Center, December 9, 2008
- 105) Glycobiology Gordon Conference, Ventura, CA, Jan. 18-23, 2009
- 106) Glycan Microarray Technologies and Applications, Hilton La Jolla, California, March 14-16, 2009
- 107) Symposium on “*Synthetic Carbohydrate Receptor: Design and Applications*” at 237th ACS National Meeting, March 22-26, 2009
- 108) Symposium on “*Carbohydrate Sensors: Recent Developments and Applications*” at 237th ACS National Meeting, March 22-26, 2009
- 109) Discovery and Developmental Therapeutics Retreat (Emory), Evergreen Marriott Conference Resort in Stone Mountain, Georgia, June 5-6
- 110) 5th Sino-US Chemistry Professors Conference, Lanzhou, China, June 28-30, 2009
- 111) Indian Institute of Technology (Delhi), India, January 13, 2010
- 112) 14th ISCH International Conference: Chemical Biology for Discovery: Perspectives and Challenges, Lucknow, India, January 15-18, 2010
- 113) Keynote Speech at the Chinese American Chemical Society Banquet at the Spring American Chemical Society meeting, San Francisco, March 22, 2010
- 114) Anacor Pharmaceuticals, Inc., Palo Alto, CA, April 7, 2010
- 115) Department of Chemistry, University of California, Santa Cruz, CA, April 8, 2010
- 116) Shanghai Institute of Materia Medica, Shanghai, China, June 17, 2010
- 117) Winship Cancer Institute’s 2nd annual Discovery and Developmental Therapeutics Retreat, Emory, August 27, 2010
- 118) Department of Medicinal Chemistry, University of Iowa, Iowa, September 13, 2010
- 119) Department of Chemistry, Wayne State University, Detroit, MI, September 21, 2010
- 120) Albert Einstein Medical School, New York City, NY, October 26, 2010
- 121) 6th Annual Biotech Symposium, Georgia State University, December 3, 2010
- 122) Boronic Acid Symposium, Pacificchem Conference, Hawaii, December 20, 2010

- 123) Drug Discovery Workshop sponsored by the Brazilian National Institute of Science and Technology for Pharmaceutical Innovation, March 21, 2011, São Paulo
- 124) Drug Discovery Workshop sponsored by the Brazilian National Institute of Science and Technology for Pharmaceutical Innovation, March 23, 2011, Recife
- 125) Chinese-American Chemical Society 30th Anniversary Symposium at the 241st ACS National Meeting, March 28, 2011, Anaheim, California
- 126) College of Pharmacy, Shandong University, June 1, 2011
- 127) Institute of Materia Medica, Chinese Academy of Medical Sciences, June 10, 2011
- 128) College of Chemistry, Guanxi Normal University, June 12, 2011
- 129) Department of Chemistry and Biochemistry, Georgia Institute of Technology, August 25, 2011
- 130) IME Boron XIV Conference, Niagara Falls, Canada, September 11-15, 2011

Currently Active Research Funding

- 1) Selection of Boronic Acid-modified Aptamers for Glycoproteins, PI, NIH (GM084933), 9/1/08-8/31/2012
- 2) Aptamer-based Glyco-tools, PI, NIH (STTR, R42GM086925), 4/1/09-11/30/2012
- 3) Development of Novel Small Molecules for Malignant Brain Tumor, Sub-contract PI (PI: Erwin Van Meir, Emory), NIH (CA116804), 9/1/2007-3/31/2012

Pending Funding

- 1) Carbohydrate Biomarker-based Mass Spectrometry Imaging of Cancer, Co-PI with Richard Drake of Eastern Virginia Medical School, NIH (CA160192-01), 7/1/11-6/30/13, \$587,625.
- 2) Cancer Imaging Based on Carbohydrate Biomarkers, PI (in collaboration with Richard Drake, Mark Goodman, Zhiren Liu), NIH (R01CA164480-01), 9/1/11-8/31-16

Past Research Funding

- 1) Inhibitors of 5-Enolpyruvylshikimate-3-phosphate Synthase and Chorismate Synthase, PI, Oklahoma Center for the Advancement of Science and Technology, \$87,344 (direct cost only), September 1, 1994-August 31, 1997 (Third year declined).
- 2) NMR Spectrometer (300 MHz), PI, NIH, \$197,300 (direct cost only), April 1, 1996 - March 31, 1997 (Funded, but transferred PI position to Garo Basmadjian because of my move from University of Oklahoma to North Carolina State University.).

- 3) Cyclic Prodrugs of RGD Analogs, PI, American Heart Association, Oklahoma Affiliate, \$95,700 (including 10% indirect cost), July 1, 1996-June 30, 1999 (Funded, but declined).
- 4) Coumarin-Based Cyclic Prodrugs of Opioid Peptides, PI, Presbyterian Health Foundation (#987), \$24,950 (direct cost only), April 1, 1995-March 31, 1996.
- 5) Acquisition of Instrumentation for an Oklahoma Statewide Shared NMR Facility, Co-Investigator (PI: Warren Ford of Oklahoma State University, Total Number of Investigators: 13 from The University of Oklahoma, Oklahoma State University, and The University of Oklahoma Health Sciences Center), NSF: \$535,000 (direct cost only); Oklahoma State Regents for Higher Education Competitive Challenge Grant: \$500,000 (direct cost only); Educational Research Foundation: \$300,000 (direct cost only), September 1, 1995 - August 31, 1996 (all funded).
- 6) Cyclic Prodrugs of Opioid Peptides, Co-PI (PI: Ronald T. Borchardt of University of Kansas), NIDA, \$425,065, July 1, 1995-June 30, 1998.
- 7) Glaxo Graduate Fellowship, \$16,000, Preceptor (Recipient: Wei Wang), 1998-1999.
- 8) Wellcome Graduate Fellowship, \$16,000, Preceptor (Recipient: Eric Ballard), 1998-1999.
- 9) Research Experiences for Undergraduates, Co-Investigator/preceptor (PI: James D. Martin), NSF (CHE-9610196), \$180,339, May 1997-April 2000.
- 10) Thrombus-specific MRI Contrast Agents, PI (Co-PI: David Sane), North Carolina Biotechnology Center (98005-ARG-0008), \$40,000 (direct cost only), August 1, 1998-July 31, 2000.
- 11) Glucose-sensitive Artificial Receptors for Insulin, PI, NIH (NIDDK, DK55062), \$197,749, September 30, 1998-September 29, 2000.
- 11) NMR Spectrometer (400 MHz), PI, NIH (S10RR14731), \$330,000, April 1, 2001-March 31, 2002 (Funded but declined because an overlapping application submitted to the NSF by the Chemistry Department was also funded and the Department decided to accept the NSF one).
- 12) Wellcome Graduate Fellowship, Preceptor (Recipient: Weijuan Ni), \$18,000, 2000-2001.
- 13) Application of Two Facile Cyclization Systems, PI, NIH (NIGMS, GM52515), \$500,000, April 1, 1995-July 31, 2001.
- 14) Neuroprotective Apolipoprotein-E Analogs, Collaborator (PI: Mike Vitek), NIH-SBIR (phase 1), \$181,236.
- 15) Esterase-Sensitive Prodrugs of Tirofiban, Lamifiban, and Xemilofiban, PI, American Heart Association (National, #9740117N), \$291,620, July 1, 1998-June 30, 2003.
- 16) Gated Carbon Nanotubes, PI, North Carolina Biotechnology Center (2001ARG0016), \$55,000, August 1, 2001-July 1, 2003.

- 17) Biotechnology Training at North Carolina State University, Participant/preceptor (PI: Bob Kelly), NIH, \$1,370,894, July 1, 2000-June 30, 2005.
- 18) Fluorescent Tags Targeted on Cell Surface Carbohydrates, PI, NIH (CA88343), \$889,951, July 1, 2000-June 30, 2005.
- 19) Boronic Acid-based Sensors for Cell-surface Carbohydrates, PI, NIH (NO1-CO-27184), \$1,556,839, 3/1/02-2/28/05.
- 20) Small-molecule Inhibitors of DNA Repair as Radiosensitizers, Co-PI with Bill Dynan of Medical College of Georgia, Georgia Research Alliance, \$50,000 (Wang's portion \$25,000), 7/1/04-6/30/05
- 21) PDE4 Inhibitor Studies, Co-PI with Jim Prestegard of the University of Georgia, Georgia Research Alliance (GRA.CG06.E), \$50,000 (Wang's portion \$25,000), 7/1/05-6/30/06
- 22) Identification and Synthesis of Sea Hare Defensive Compounds, Co-PI with Chuck Derby, Brains and Behavior Research Program, GSU-Internal, \$25,444 (Wang's Portion: \$16,444), 9/1/2005-8/31/2006.
- 23) Inhibitor of DAM Virulence Factor in Enteropathogenic *Escherichia coli*, CO-PI with Xiaodong Chen of Emory University, Georgia Research Alliance, \$50,000 (Wang's portion \$25,000), 7/1/06-6/30/07
- 24) Small-molecule Inhibitors of DNA Repair as Radiosensitizers, Co-PI with Bill Dynan of Medical College of Georgia, Georgia Research Alliance, \$50,000 (Wang's portion \$25,000), 7/1/05-6/30/07
- 25) Inhibitors of Bacterial Urease as Potential Antimicrobial Agents, Co-PI with Robert Maier of the University of Georgia, Georgia Research Alliance, \$50,000 (Wang's portion \$25,000), 7/1/06-6/30/07
- 26) Inhibitors of Bacterial Urease as Potential Antimicrobial Agents, Co-PI with Robert Maier of the University of Georgia, Georgia Research Alliance, \$50,000 (Wang's portion \$25,000), 7/1/07-6/30/08
- 27) Phosphodiesterases as therapeutic targets in Chagas' disease, Co-PI with Roberto Decampo of the University of Georgia, Georgia Research Alliance, \$50,000, 7/1/07-6/30/08
- 28) Immunopathogenic Role of Infectious Agents in Neurological Disorders, Co-PI with Robert Yu (Medical College of Georgia), Georgia Research Alliance, \$100,000 (Wang's portion: \$40,000), 8/1/07-7/1/08
- 29) Fluorescent Aptamers for Glycoprotein Detection, PI, NIH (CA113917), ~\$400,000, 7/1/05-6/30/09
- 30) Phosphodiesterase inhibitors as trypanocidal therapeutics, Co-PI with Roberto Docampo of UGA) Georgia Research Alliance, \$50,000, 7/1/2008-6/30/2009

- 31) Developing New Cancer Therapies and Diagnostics, Georgia Cancer Coalition, July 1, 2003-June 30, 2010.
- 32) Biomarker-based MRI Contrast Agents, PI, NIH (CA123329), 9/20/2006-8/31/2010
- 33) NIH Minority Supplement for Suazette Reid (Development of Novel Small Molecules for Malignant Brain Tumor, Sub-contract PI (PI: Erwin Van Meir, Emory), CA116804), preceptor, NIH, 9/1/08-8/31/2010

Courses Taught

- 1) Medicinal Chemistry I & II (Pharmacy students, College of Pharmacy, University of Oklahoma)
- 2) Biotechnology (Graduate students, College of Pharmacy, University of Oklahoma)
- 3) Organic Chemistry I and II (Undergraduates, North Carolina State University)
- 4) Advance Organic Chemistry Lab (Undergraduates, North Carolina State University)
- 5) Bioorganic Chemistry (Graduate, North Carolina State University)
- 6) Advanced Organic Chemistry (Graduate, Georgia State University)
- 7) Medicinal Chemistry (Graduate, Georgia State University)

Publications

- 1) Wang, B.; Kagel, J.R.; Rao, T.S.; Mertes, M.P. "A Novel Cyclization Reaction of a C6 Substituted Uridine Analog: An Entry to 5,6-Dialkylated Uridine Derivatives" *Tetrahedron Lett.* **1989**, *30*, 7005-7008. PMID: 8217019
- 2) Wang, B.; Mertes, M.P.; Mertes, K.B.; Takusagawa, F. "A Novel Intramolecular 1,3-Dipolar Cycloaddition Reaction of a C6 Substituted Uridine Analog" *Tetrahedron Lett.* **1990**, *31*, 5543-5546.
- 3) Bencini, A.; Bianchi, A.; Garcia-Espana, E.; Scott, E.; Morales, L.; Wang, B.; Deffo, T.; Mertes, M.P.; Mertes, K.B.; Paoletti, P. "Potential ATPase Mimics by Polyammonium Macrocycles: Criteria for Catalytic Activity" *Bioorganic Chemistry* **1992**, 8-29.
- 4) Wang, B.; Takusagawa, F.; Mertes, M.P.; Bowman-James, K. "Structure of the Product from a Novel Cyclization Reaction Involving a C6-Substituted Uridine Analog, C₂₅H₃₁N₃O₆" *Acta Crystallographica Section C* **1993**, 1568-1571. PMID: **8217019**
- 5) Kagel, J.R.; Wang, B.; Mertes, M.P. "Synthesis and Evaluation of a Chemical Probe for the Mechanism of Thymidylate Synthase" *J. Org. Chem.* **1993**, *58*, 2738-2746.

- 6) Wang, B.; Kagel, J.; Mertes, M.P.; Bowman-James, K. "Insight into the Chemical Mechanism of Thymidylate Synthase Catalyzed Reaction through the Evaluation of Chemical Models: The Role of C6 Sulfhydryl Addition during the Reductive Elimination Step of the Reaction" *Bioorganic Chemistry* **1994**, *22*, 405-420.
- 7) Wang, B.; Liu, S.; Borchardt, R.T. "A Novel Redox-Sensitive Protecting Group for Amines Which Utilizes a Facilitated Lactonization Reaction" *J. Org. Chem.* **1995**, *60*, 539-543.
- 8) Wang, B.; Nicolaou, M.; Liu, S.; Borchardt, R.T. "Structural Analysis of a Facile Lactonization System Facilitated by a "Trimethyl Lock"" *Bioorganic Chemistry* **1996**, *24*, 39-49.
- 9) Liu, S.; Wang, B.; Nicolaou, M.; Borchardt, R.T. "Trimethyl Lock Facilitated Spirocyclizations. A Structural Analysis" *J. Chem. Crystallography* **1996**, *26*, 209-214.
- 10) Wang, B.; Zhang, H.; Wang, W. "Chemical Feasibility Studies of a Coumarin-Based Prodrug System" *Bioorg. Med. Chem. Lett.* **1996**, *6*, 945-950.
- 11) Wang, B.; Zhang, H.; Shan, D.; Wang, W. "Coumarin-Based Prodrugs 2. Synthesis and Bioreversibility Studies of an Esterase-Sensitive Cyclic Prodrug of DADLE, an Opioid Peptides" *Bioorg. Med. Chem. Lett.* **1996**, *6*, 2823-2826.
- 12) Gangwar, S.; Pauletti, G.; Wang, B.; Siahaan, T.; Stella, V.J.; Borchardt, R.T. "Novel Esterase-Sensitive Cyclic Prodrugs of a Model Hexapeptide Having Enhanced Membrane Permeability and Enzymatic Stability." *Proceedings of the 14th International Symposium for Medicinal Chemistry* **1997**, 27-34, F. Awouters, Ed. Elsevier Science, B.V., Amsterdam, The Netherlands.
- 13) Gangwar, S.; Pauletti, G.M.; Wang, B.; Siahaan, T.J.; Stella, V.J.; Borchardt, R.T. "Prodrug Strategies to Enhance the Intestinal Absorption of peptides" *Drug Discovery Today*, **1997**, *4*, 148-155.
- 14) Pauletti, G.M.; Gangwar, S.; Wang, B.; Borchardt, R.T. "Esterase-Sensitive Cyclic Prodrugs of Peptides: Evaluation of a Phenylpropionic Acid Promoiety in a Model Hexapeptide" *Pharm. Res.* **1997**, *14*, 11-17.
- 15) Wang, B.; Gangwar, S.; Pauletti, G.M.; Siahaan, T.J.; Borchardt, R.T. "Synthesis of a Novel Esterase-Sensitive Cyclic Prodrug System for Peptides that Utilizes a "Trimethyl Lock"-Facilitated Lactonization Reaction" *J. Org. Chem.* **1997**, *62*, 1363-1367.
- 16) Wang, B.; Zheng, A. "A Photosensitive Protecting Group for Amines" *Chem. Pharm. Bull.* **1997**, *45*, 715-718.
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- 34) Gao, S.; Wang, W.; and Wang, B. "A New OsO₄-Mediated Carbon-Carbon Bond Cleavage Reaction Leading to the Formation of Anthraquinone" Presented at the 220th National Meeting in Washington, D.C., August 20- August 24, 2000.
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- 36) Latta, R.; Springsteen, G.; and Wang, B. "Boronic Acid-Mediated Amide Bond Formation" Presented at the 220th National Meeting in Washington, D.C., August 20- August 24, 2000.
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- 41) Springsteen, G. and Wang, B. "Boronic Acid/Diol Binding Strengths Determined by Alizarin Red S" Presented at the 222nd ACS National Meeting, August 26-30, 2001, Chicago, Illinois.
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- 43) Yu, H.; Ballard, C. E.; Boyle, P.D.; and Wang, B. "A Carbohydrate Derivative Used as a Chiral Auxiliary in the Synthesis of α -Hydroxy Carboxylic Acids" Presented at the 223rd ACS National Meeting, April 7-11, 2002, Orlando, Florida.
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- 51) Wang, B. “Using Boronic Acid for the Construction of Antibody Mimics and Sensors for Cell-surface Saccharide Biomarkers” Presented at the NCI Unconventional Innovation Program, February 17-18, 2003, San Diego, CA
- 52) Ni, W.; Wang, B. “Nitrophenol-based boronic Acid compounds for Color Sensing of Diols,” Presented at the 225th American Chemical Society national meeting, New Orleans, March 23-27, 2003.
- 53) Yan, J.; Springsteen, G.; Deeter, S.; Skeuse, C. Wang, B. “The Interactions between Boronic Acid and Diols-The Relationship between pKa, pH, and Binding Constants,” Presented at the 225th American Chemical Society national meeting, New Orleans, March 23-27, 2003.
- 54) Yang, W.; Yan, J.; Springsteen, G.; Deeter, S.; Wang, B. “A Novel Type of Fluorescent Boronic Acid that Shows Large Fluorescence Intensity Changes upon Binding with a Diol in Aqueous Solution at Physiological pH,” Presented at the 225th American Chemical Society national meeting, New Orleans, March 23-27, 2003.
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- 57) Chen, X.; Yang, W.; Bruneau, A.; Wang, B.; Qu, R. “Induced Elimination of Summer Persistent Perennial Ryegrass,” Presented at Molecular Breeding of Forage and Turf, the Third International Symposium, May 18-22, 2003, at Dallas, TX.
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at the Joint NCI-NASA Fundamental Technologies for Biomolecular Sensors Program, July 28-29, 2003, Chicago, IL.

- 62) Gao, X.; Zhang, Y.; Sankar, S.; Wang, B. "New Boronic Acid Fluorescent Reporter Compounds II. A Naphthalene-based sensor Functional at Physiological pH" Presented at the 226th American Chemical Society national meeting, New York, September 7-11, 2003
- 63) Wang, B. "Fluorescent Sensors for Saccharides", Young Supramolecular Chemists Workshop, Sanibel, FL, January 10-14, 2004.
- 64) Fang, H.; Li, J.; Sun, Y.; Wang, B.; Zhang, Y. "A New Data Mining Tool for Analyzing Coumarin-based Prodrugs" Conference on Data Mining and Knowledge Discovery: Theory, Tools, and Technology, vol. 5433, pp. 142-152, Orlando, April, 2004.
- 65) Kaur, G.; Fang, H.; Wang, B. "The Effect of Electron Withdrawing Groups on Diboronic Acid Based Sensors" Presented at the 227th American Chemical Society national meeting, Anaheim, March 28-April 1, 2004.
- 66) Gao, X.; Zhang, Y.; Wang, B. "New Boronic Acid Fluorescent Reporter Compounds. A Naphthalene-based Ratio-metric Saccharide Sensor Functional at Physiological pH" Presented at the 227th American Chemical Society national meeting, Anaheim, March 28-April 1, 2004.
- 67) Ni, W.; Kaur, G.; Franzen, S.; Wang, B. "How Important Is the B-N Interaction in Regulating the Fluorescence Intensity in the Anthracene Boronic Acid System?" Presented at the 227th American Chemical Society national meeting, Anaheim, March 28-April 1, 2004.
- 68) Wang, B. "Sensors for Cell Surface Carbohydrate Biomarkers" Presented at the joint NASA-NCI FTBS meeting, Monterey, CA, August 2-4, 2004
- 69) Zhang, Y.; Gao, X.; Wang, B. "Water-soluble fluorescent boronic acid compounds for saccharide sensing: Structural effect on their fluorescence properties," Presented at the 228th ACS National Meeting, Philadelphia, PA, August 22-26, 2004.
- 70) Craig, S.; Wang, B. "Diboronic Acids as Fluorescent Sensors for Cell-surface Carbohydrates," Presented at the Southeastern Regional Meeting of the American Chemical Society, November 10-13, 2004, RTP, NC.
- 71) Tang, Y.; Jin, B. Zhang, Y.Q.; Fang, H.; Wang, B. "Granular Support Vector Machines Using Linear Decision Hyperplanes for Fast Medical Binary Classification" Presented at FUZZ-IEEE-2005, May 22-25, 2005, Reno, Nevada.
- 72) Gao, X.; Zhang, Y. Wang, B. "A water-soluble and highly fluorescent naphthalene-based boronic acid compound for carbohydrate sensing at physiological pH" Presented at the 229th American Chemical Society National Meeting, San Diego, CA, March 13-17, 2005.
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Glycomics and Carbohydrates in Drug Development, Hilton La Jolla Torreyes Pines, La Jolla, CA, March 21-22, 2005

- 74) Yan, J.; Jin, S.; Wang, B. "A New Redox-Sensitive Protecting Group for Boronic Acids" Presented at the 230th American Chemical Society National Meeting, Washington, D.C., August 28-September 1, 2005.
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- 76) Wang, B. "Lectin Mimics" Carbohydrate Gordon Conferences, Tilton, NH, June 19-24, 2005
- 77) Lin, N.; Huang, Z.; Altier, C.; Johnston, L.; Carrasco, N.; Fang, H.; Yan, J.; Wang, S.; Wang, B. "Incorporation of boronic acid fluorescent reporters into DNA for aptamer selection" Presented at the 230th American Chemical Society National Meeting (Medicinal Chemistry Division), Washington, D.C., August 28-September 1, 2005.
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- 80) Yang, W.; Zhang, Y.; Yan, J.; Gao, X.; Gao, S.; Karnati, V.; Ni, W.; Fan, H.; Weston, B.; Carson, J.; and Wang, B. "Artificial Lectins: Boronolactins and Fluorescent Boronolactins" Presented at the 2005 Pacificchem Conference, Honolulu, Hawaii, USA, December 15-21, 2005.
- 81) Zou, W.; He, M.; Yue, P.; Zhou, Z.; Lin, N.; Lonial, S.; Khuri, F.R.; Wang, B.; Sun, S. "Vitamin C Inactivates the Proteasome Inhibitor PS-341 (Bortezomib) in Human Cancer Cells" Presented at the 2005 Pacificchem Conference, Honolulu, Hawaii, USA, December 15-21, 2005.
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- 83) Gao, X.; Yang, W.; Zhang, Y. Yan, J.; Wang, J.; Wang, B. "Designing New Boronic Acid Reporters for the Synthesis of Fluorescent Sensors for Saccharides" Presented at the 2005 Pacificchem Conference, Honolulu, Hawaii, USA, December 15-21, 2005.
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- 85) Wang, J.; Jin, S.; Wang, B. "Synthesis and sugar binding studies of long-wavelength boronic acid fluorescent compounds based on the 4-amino-naphthalimide template" Presented at the 231rd American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Organic Division)

- 86) Zheng, S.; Reid, S.; Lin, N.; Wang, B. "Microwave-assisted synthesis of neopentylethynyl arylboronates for the construction of boronic acid-based fluorescent sensors for carbohydrates" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Organic Division).
- 87) Zheng, S.; Lin, N.; Reid, S.; Wang, B. "Effect of conjugation with a phenylethynyl group on the fluorescent properties of water-soluble arylboronic acids" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Organic Division).
- 87) Akay, S.; Yang, W.; Lin, L.; Wang, B. "Synthesis of fluorescent benzo[b]thiophene boronic acid derivatives as carbohydrates sensors" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 88) Kaur, G.; Akay, S.; Wang, B. "Design and synthesis of boronic acid-based sensors for cell surface carbohydrate recognition" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 89) Yan, J.; Shan, J.; Kumar, A.; Boykin, D.W.; Wang, B. "Polyfuran-based long-wavelength fluorescent boronic acids for carbohydrate sensing" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 90) Yan, J.; Shan, J.; Kumar, A.; Boykin, D.W.; Wang, B. "Polyfuran-based long-wavelength fluorescent boronic acids for carbohydrate sensing" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 91) Zhang, Y.; Gao, X.; Chandrasekaran, S.; Fang, X.; Hardcastle, K.; Wang, B. "Understanding the mechanism of the fluorescent intensity changes of quinolineboronic acids upon sugar binding" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 92) Wang, B. "Lectin Mimics: Boronlectins and Fluorescent Boronlectins" Presented at the 231st American Chemical Society National Meeting, Atlanta, March 26-30, 2006 (Carbohydrate Division).
- 93) Wang, S.; Shealey, S.; Wang, B. "Ionization pathways for arylboronic acids" Presented at the 2006 ASMS meeting, May 28-June 1, 2006, Seattle, Washington.
- 94) Wang, B. "Vitamin C: Is too much of a good thing a good thing?" Presented at the Second Annual Meeting on Frontiers in Organic and Bioorganic Chemistry, Shanghai, China, July 8-9, 2006.
- 95) Wang, B. "Developing Boronlectins as Pharmaceutical Agents" Presented at the 2006 Symposium on Organic Chemistry and Medicinal Chemistry, Lanzhou, China, July 10-11, 2006.
- 96) Wang, B. "Selective PDE4 Inhibitors" Presented at the 5th Biennial Chinese Medicinal Chemistry Symposium, November 2-7, 2006.

- 97) Wang, B. "Selective PDE4 Inhibitors for Asthma Treatment" Presented at Second MBD Day Symposium, Georgia State University, May 18, 2007.
- 98) Wang, B. "Selective PDE4 Inhibitors for Asthma Treatment" The 3rd Sino-US Chemistry Professors Conference, Wuhan, China, June 1-2, 2007
- 99) Wang, B. "Lectin Mimics for glycoprotein identification," presented at the 8th PI meeting of the IMAT program (NCI), July 24-25, 2007
- 100) Cheng, Y.F.; Ni, N.T.; Li, M.Y.; Chou, H.T.; Lu, C-D.; Wang, B. "Synthesis of AI-2 Antagonists to Inhibit Bacterial Quorum Sensing," Presented at the 2007 Georgia Life Summit, October 3, 2007
- 101) Ni, N.T.; Chou, H.T.; Wang, J.F.; Li, M.Y.; Lu, C.-D.; Tai, P.-C.; Wang, B. "Identification of Three Boronic Acids as Antagonists of AI-1 and AI-2-Mediated Bacterial Quorum Sensing in *Vibrio harveyi*" Presented at the 2007 Georgia Life Summit, October 3, 2007
- 101) Shan, J.; Li, M.; Tran, V.; Wang, B. "Design and synthesis of boronic acid-based sensors for dopamine" Presented at the 2007 Georgia Life Summit, October 3, 2007
- 102) Ni, N.; Choudhary, G.; Wang, B. "Pyrogallol and its analogs can antagonize bacterial quorum sensing in *Vibrio harveyi*" to be presented at the Spring 2008 American Chemical Society National Meeting, April 6-10, 2008
- 103) Cheng, Y.; Ni, N.; Li, M.; Chou, H-T.; Lu, C-D.; Tai, P-C.; Wang, B. "Synthesis and Biological Evaluation of Inhibitors of AI-2-Mediated Bacterial Quorum Sensing in *Vibrio harveyi*" to be presented at the Spring 2008 American Chemical Society National Meeting, April 6-10, 2008
- 104) Shan, J.; Zhu, C.; Wang, B. "Synthesis and Evaluation of α -Amidoboronic Acids for their Ability to Interact with Carbohydrates" to be presented at the Spring 2008 American Chemical Society National Meeting, April 6-10, 2008
- 105) Reid, S.; Belozarov, V.; Van Meir, E.G.; Wang, B. "Design and synthesis of small-molecule inhibitors of the HIF-1 pathway" to be presented at the Spring 2008 American Chemical Society National Meeting, April 6-10, 2008
- 106) Wang, B. "Carbohydrate Recognition and Sensing" Presented at the Joint International Symposium on Macrocyclic & Supramolecular Chemistry, Las Vegas, July 13-18, 2008
- 107) Wang, B. "Going after the "sweet spot" in Selecting DNA Aptamers for Glycoproteins" presented at the NIH Glycoarray Workshop, December 8, 2008
- 108) Fang, H.; Wu, Z.; Wang, B. "Water soluble fluorescent boronic acid sensors for tumor cell-surface saccharide" Japan-China Joint Medical Workshop on Drug Discoveries and Therapeutics 2008 Sanjo Conference Hall, The University of Tokyo September 29 - October 1, 2008 in Tokyo, Japan

- 109) Wang, B. “Going after the “sweet spot” in Selecting DNA Aptamers for Glycoproteins” presented at the Glycobiology Gordon Conference, Ventura, CA, Jan. 18-23, 2009
- 110) Cheng, Y; Jin, S; Zheng, S; Dai, C; Li, M & Wang, B. “Design and Synthesis of Boronic-acid Modified TTP Analogs for Incorporation into DNA and Aptamer” present at 1st Annual Poster Day, Department of Chemistry and Center for Biotechnology and Drug Design, Georgia State University, Atlanta, GA 30303, Feb 21, 2009.
- 111) Reid, S.; Belozarov, B.; Erwin, M. and Wang, B. “Design, Synthesis and Mechanistic Studies of HIF-1 Inhibitors” present at 1st Annual Poster Day, Department of Chemistry and Center for Biotechnology and Drug Design, Georgia State University, Atlanta, GA 30303, Feb 21, 2009.
- 112) Wang, B. “Selecting Boronic Acid Modified DNA Aptamers Capable of Differentiating Glycosylation Patterns in Glycoproteins” Glycan Microarray Technologies and Applications, Hilton La Jolla, California, March 14-16, 2009
- 113) Wang, B. “Using Boronic Acid-Diol/alcohol Interactions for the Selections of DNA Aptamers Capable of Differentiating Glycosylation Variations in Glycoproteins” presented at the Symposium on “Synthetic Carbohydrate Receptor: Design and Applications” at the 237th ACS National Meeting, March 22-26, 2009
- 114) Wang, B. “Boronolectins and Fluorescent Boronolectins as Potential Research Tools and Diagnostics” Present at the Symposium on “Glycodiagnostics: Receptor-based Strategy for Biosensing” at the 237th ACS National Meeting, March 22-26, 2009
- 115) Peng, H.; Cheng, Y.; Ni, N.; Li, M.; Choudhary, G.; Chou, H-T.; Lu, C-D.; Tai, P.-C & Wang, B. “New Antagonists of Bacterial Quorum Sensing-- Synthesis and Evaluation of Arylsulfolyl Analogues of Lead Compound” present at the 238th ACS National Meeting, August 16-20, 2009, Washington, DC
- 116) Ni, N.; Choudhary, G.; Peng, H; Li, M.; Chou, H-T.; Lu, C-D.; Gilbert, E and Wang, B. “Structure-Activity Relationship Studies of Boronic Acid-based Antagonists of Bacterial Quorum Sensing in *Vibrio harveyi*” present at 238th ACS National Meeting, August 16-20, 2009, Washington, DC
- 117) Cheng, Y; Jin, S; Zheng, S; Dai, C; Li, M & Wang, B. “Design and Synthesis of Boronic acid-Modified TTP analogs for incorporation into DNA and aptamer” present at the 238th ACS National Meeting, August 16-20, 2009, Washington, DC
- 118) Cheng, Y; Ni, N; C; Li, M & Wang, B. “A New Class of Fluorescent Boronic Acids for Sugar Recognition in Aqueous Solution at Physiological pH” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 119) Chen, W and Wang, B. “Rational Design, Synthesis, and Biological Evaluation of New SecA Inhibitors” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.

- 120) Jin, S.; Choudhary, G; Cheng, Y; Dai, C; Li, M and Wang, B. “Fluoride Protects Boronic Acids in Copper (I)-mediated Click Reaction” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 121) Yang, X and Wang, B. “Synthesis of Boronic Acid-modified TTP for Fluorescent Aptamer Selection” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 122) Ni, N.; Choudhary, G.; Peng, H; Li, M.; Chou, H-T.; Lu, C-D.; Eric S. Gilbert and Wang, B. “Structure-Activity Relationship Studies of Boronic Acid-based Antagonists of Bacterial Quorum Sensing in *Vibrio harveyi*” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 123) Liu, Y.; Ni, N.; Li, M; Chen, W and Wang, B. “A Novel Method for the Quantitative Evaluation of fibrinogen Coagulation” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 124) Sushma, R and Wang, B. “Effects of Boronic Acids on Cancer Cell Migration” present at the 75th Herty Symposium, Georgia Tech University, Atlanta, September 17, 2009.
- 125) Chen, W.; Huang, Y-J.; Sushma, R.; Yang, H.; Li, M.; Tai, P-C.; Wang, B. “Rational Design, Synthesis, and Biological Evaluation of New SecA Inhibitors” presented at the Spring 2010 ACS National Meeting & Exposition, San Francisco, March 21 – 25, 2010.
- 126) Dai, C.; Wang, L.; Sheng, J.; Peng, H; Draganov, A-B.; Huang, Z.; Wang, B. “A Method for the Chemical Synthesis of Boronic Acid-modified DNA-aptamers through Copper Free Click Reaction” presented at the Spring 2010 ACS National Meeting & Exposition, San Francisco, March 21 – 25, 2010.
- 127) Cheng, Y.; Ni, N; Yang, W.; Wang, B. “A New Class of Fluorescent Boronic Acids that have Extraordinarily High Affinities for Diols in Aqueous Solution at Physiological pH” presented at Pacificchem 2010 Conference, Honolulu, Hawaii, December 15 - 20, 2010.
- 128) Li, Y.; Ni, N; Li, M.; Chen, W.; Wang, B. “A New Microplate Method for the Quantitative Evaluation of Fibrinogen Coagulation” presented at Pacificchem 2010 Conference, Honolulu, Hawaii, December 15 - 20, 2010.
- 129) Peng, H.; Dornevil, K.; Draganov, A.; Cheng, Y.; Dai, C.; Nelson, W.H.; Liu, A.; Wang, B. “An Unusual and Facile “Reduction” of an Arylazide to Amine through the Formation of a Triplet Nitrene Intermediate” presented at the Spring 2011 ACS National Meeting & Exposition, Anaheim, CA, March 27-31, 2011.
- 130) Wang, B. “Chinese-American Chemists Are Vital Bridges between the Vibrant Chemical Community in China and the Outside World” presented at the Spring 2011 ACS National Meeting & Exposition-Chinese American Chemical Society 30th Anniversary Symposium, Anaheim, CA, March 27-31, 2011.

Nine graduate students (Weixuan Chen, Hanjing Peng, Danzhu Wang, Jerry Cheng, Sarah Burroughs, Alex Dragnov, Arpana Choudhary, Ke Wang, Sarah Laughlin), six post-doctoral research associates and visiting scientists (Chaofeng Dai, Lifang Wang, Jianmei Cui, Nanting Ni, Krishna Damera, Guojing Sun, and Bowen Ke), two undergraduates (Angie Calderon, Zeus De los Santos), one visiting scholar (Yingji Wang).

Students & Postdoctoral Fellows Mentored

i. Graduate Students

(1) Eric Ballard, Ph.D., 1997-2002; (2) Dawn Covington, M.S., 1997-1998; (3) Michelle Ferro, M.S., 1999-2003; (4) Kellee Griffin, M.S., 1999-2003; (5) Siska Hendrata, M.S., 1997-2000; (6) Ji Jiang, M.S., 1997-2000; (7) Rich Latta, Ph.D., 1998-2001; (8) Yuan Liao, M.S., 1995-2000; (9) Weijuan Ni, Ph.D., 1999-2003; (10) Bo Peng, M.S., 1999-2002; (11) Ratna Sen, M.S., 1996-1998; (12) Greg Springsteen, Ph.D., 1996-2002; (13) Wei Wang, Ph.D., 1996-2000; (14) Kun Wu, Ph.D., 1994; (15) Lindsay Zych, M.S., 1999-2002; (16) Jun Yan, Ph.D., 2000-2004; (17) Xinhui Lou, Ph.D., 2001-2003, (18) Haibo Li, Ph.D., 2001-2003, (19) Janet Jones, Ph.D., 2001-2007, (20) Sandra Craig, 2002-2007, (22) Ibrahim Bori, Ph.D., Chemistry, 2002-2003, (23) Gurpreet Kaur, Ph.D., Chemistry, 2002-2006, (24) Angela Mulder, Ph.D., Chemistry, 2002-2003, (25) Senol Akay, Ph.D. Chemistry, GSU, 2003-present; (26) Shan Jin, Ph.D. Chemistry, GSU, Jan 2005-May 2009; (27) Xiaochuan Yang, Ph.D. Chemistry, GSU, Jan 2005-2010; (28) Suazette Reid, Ph.D. Chemistry, GSU, July 2005-2010; (29) Nanting Ni, Ph.D. Chemistry, GSU, Jan. 2006-2010, and (30) Yunfeng (Jerry) Cheng, Ph.D. Chemistry, GSU, August 2006-present; (31) Weixuan Chen, Ph.D. Chemistry, GSU, August 2007-present, (32) Hanjing Peng, Ph.D. Chemistry, GSU, Aug. 2007-present, (33) Yidan Liu, Aug. M.S. Chemistry, GSU, 2007-2009, (34) Sushma Reddy Gundala, M.S. Biology, GSU, Aug. 2007-2010, (35) Anusha Kandukuri, M.S. Biology, GSU, August 2007; (36) Salma Stoman, M.S. Chemistry, GSU, August 2007-2008; (37) Gaurav Choudhary, M.S. Biology, GSU, 2006-2009; (38) Arpana Chaudhary, Ph.D. Chemistry, GSU, May 2009-present; (39) Tran Hang, MS, Chemistry GSU, 2009-2010; (40) Sarah Borroughs, Ph.D. GSU, 2009-present; (41) Jessica

Bulls, Ph.D. GSU, 2010; (42) Ke Wang, Ph.D. GSU, 2010-present; (43) Danzhu Wang, Ph.D., GSU, 2009-present; (44) Alex Dragnov, MS, 2009-present; (45) Sarah Laughlin, MS, 2009-present.

ii. Research Personnel

(1) Young Ro Choi, Ph.D. December 1997-December 1998 (now Director, R&D Center, Kukje Pharma Ind. Co., Ltd. 648, Choji-Dong, Ansan-City, Kyunggi-Do, Korea) (2) Xingming Gao, Ph.D., August 2000-March 2004; (3) Wenqiang Yang., March 2000-June 2003.; (4) Daxian Shan, M.S., Research Fellow, November, 1994-September, 1998 (Now Research Scientist at Amgen, Thousand Oaks, CA); (5) Xuling Shi, Ph.D., October 1998-November 1999; (6) Terry Smith, Ph.D., Professor of Chemistry, University of Central Oklahoma, Visiting Professor, Summer 1995; (7) Wei Wang, M.S., Research fellow, October, 1994-1996; (8) Hongwu Yu, Ph.D. November 1998-2001; (9) Huijuan Zhang, B.S., Research Fellow, April 1995-March, 1997; (10) Ailian Zheng, M.S., Research Fellow, November, 1995-February, 1999 (Associate Professor, Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China), (11) Shouhai Gao, Ph.D., Postdoctoral fellow, October 1998-May, 2001, (12) Karnati V V Reddy, Ph.D., Postdoctoral fellow, March 1999-May 2001, (13) Xingming Gao, 1999-March 2005, (14) Yanlin Zhang, Ph.D., 2002-2006, (15) Hao Feng, Ph.D., 2002-December 2004, (16) Na Lin, Ph.D., 2003-2006, (17) Dajun Chen, Ph.D., 2003, (18) Shilong Zheng, 2003-September, 2007, (19) Gayane Khachvankyan, 2002, 2003-2004, (19) Jianzhang Zhao, 2005, (20) Jun Yan, 2005-April 2005; (21) Minyong Li, Jan 2006-April 2009; (22) Junfeng Wang, April 2005-July, 2007; (23) Lupei Du, March 2007-April, 2009; (24) Chaofeng Dai, December 2007-present; (25) Chunyuan Zhu, September 2007-December 2008; (26) Jin Hui, Jan. November 2007-2008; (27) Yong Chu, March 2008-Jan. 2009; (28) Chunhao Yang, August 2008-Jan 2009; (29) Shaoru Wang, October 2008-October 2010; (30) Jianmin Cui, Feb. 2009-present; (31) Lifang Wang, Jan. 2009-present; (32) Guojing Sun, 2009-present; (33) Nanting Ni, July 2009-present;

(34) Krishna Damera, September 2009-present; (35) Zhongyu Wu, September 2009-September 2010; (36) Yingji Wang, November 2010-present

iii. Undergraduate students mentored

(1) Bau Tran, 1995-1996; (2) Sung Yong Bae, Summer 1999; (3) Suzanne Burlone, Summer 1999; (4) Summer Coller, Summer 1998; (5) Adama Connor, 1999-2000; (6) Joyce Eledah, 1996-1997; (7) Jennifer Elmo, 1997-1998; (8) Amanda F. Fuller, 1996-1997; (9) David Herzig, 2000-2001; (10) Jason F. Ho, 1998-1999; (11) Ming Li, 1997-1998; (12) Chris Mitton, Summer 1999; (13) Jason Peterson, 1994-1995; (14) Thao Pham, Summer 1995; (15) Amber Pittman, Summer 1999; (16) Miles Sweet, Summer 1999 (later a Rhodes Scholar at Oxford); (17) Reba Royster, Summer, 2000; (18) Tara Elkin, Summer, 2001; (19) Kelly Pennix, summer, 200-2002, (20) Kim McNair, Summer 2001, (21) Harshit Bakshi, Fall 2001-2002; (22) John Adams, Fall 2001-2002; (23) Susan Deeter, Summer, 2002, (24) Faith Ohuoba, summer 2002, (25) Colleen Skeuse, 2002, (26) Andrea Allgood, 2002-present; (27) Marcus Lockhart, 2002-2003; (28) Jaime Curtis, summer 2003; (29) Susiana Mulyadi, May 2004-2005; (30) Gary E Brandt, May 2004-2005; (31) Seemie Syed, April 2005; (32) Mike Nguyen, July 2005-2006, (33) Tekla Kovash, August 2005-2006; (33) Vaibhav G Shah, Jan 2006-present; (34) Bo Peng, Fall 2006; (35) David Bello, Summer 2006-2007; (36) Nicole Youngs, Spring 2007; (37) ViLinh Thi Tran, Fall 2006-Spring 2007; (38) Phun Tham, Fall 2006-Spring 2007, (39) Tierra Demons, Fall 2006-Spring 2007; (40) Miyeong Jin, 2007; (41) Kyoung Su Lee 2007, (42) Nekelia Alashante Henderson 2007-2008; (43) Hang Tran, Fall 2008-July 2010; (44) Angie Caldron, Fall 2008-present; (45) Carol Nga, Spring 2009-present; (46) Sara Tesfazghi, Spring 2009-2010; (47) Hieu Dihn, 2009-present; (48) Jennifer Mendez, 2010-present.

iv. Students' Thesis/Dissertation Committees

(1) Michael William Bauer, Chem. Eng., Ph.D., NCSU, 1997; (2) Sophie Binet, Chemistry, Ph.D., NCSU, 1996-2000; (3) Dawn Covington, M.S., 1997-1998; (4) Alan Fulp, Chemistry,

Ph.D., NCSU, 1996-2000; (5) Holly Homer, M.S., Chemistry, 1999-2000; (6) Charles Ingalls, Chemistry, M.S., NCSU, 1997-1999; (7) Ji Jiang, Chemistry, M.S., NCSU, 1997-2000; (8) Debbie Kaufman, Chemical Engineering, Ph.D., NCSU, 1996-2000; (9) Yuan Liao, Chemistry, M.S., NCSU, 1996-2000; (10) Sachin G. Maniar, M.S., NCSU, 1998-2000; (11) Cheryl McArdle, Chemistry, M.S., NCSU, 1996-1998; (12) Mark Miller, M.S., NCSU, 1998-2000; (13) Christian G. Ollinger, M.S., Chemistry, 1999-2000; (14) Sue Quick, Wood & Paper Science, M.S., NCSU, 1999; (15) Ratna Sen, M.S. 1996-1998; (16) Birol Umer, Paper Sciences, Ph.D., NCSU, 1997-2000; (17) Wei Wang, Chemistry, Ph.D., NCSU, 1996-2000; (18) Kun Wu, Ph.D., Medicinal Chemistry, University of Oklahoma, 1994; (19) Wei Xu, Ph.D., Fiber and Polymer Sciences, NCSU, 1998-2000; (20) Pingao Yu, Mech. Eng., Ph.D., NCSU, 1996-1999; (21) Yanchen Zhang, Chemistry, M.S., NCSU, 1997-2001; (22) Siska Hendrata, M.S., 1997-2001; (23) Rich Latta, Ph.D., 1998-2001; (24) Li Ma, M.S., NCSU, 1997-2001; (25) Yuyu Bai, Crop Science, Ph.D., NCSU, 2000-2001; (26) Greg Springsteen, Ph.D., NCSU, 1996-2002; (27) Eric Ballard, Ph.D., 1997-2002; (28) Clint Brooks, Chemistry, Ph.D., NCSU, 1996-2001; (29) Scott Burns, Chemistry, Ph.D., NCSU, 1998-2002; (30) Qizhou Dai, Paper Sciences, Ph.D., NCSU, 1997-2002; (31) Michelle Ferro, M.S., 1999-2002; (32) Brandon Fetterolf, M.S., Chemistry, 1999-2002; (33) Kellee Griffin, M.S., 1999-2003; (34) Ningning M.S., Ph.D., Department of Chemistry, NCSU, 1999-2002; (35) Lindsay Zych, M.S., Chemistry, NCSU, 1999-2002; (36) Hui Ouyang, Ph.D., Pharmaceutics, UNC-CH, 1999-2001; (37) Hai Bui, Chemistry, PhD, 1999-2003; (38) Weijuan Ni, Ph.D., 1999-present; (39) Dimitar Gotchev, Ph.D., Department of Chemistry, NCSU, 1999-2003; (40) Anne-Cecile Hiebel, Ph.D., Department of Chemistry, NCSU, 2000-2003; (41) Huan Xie, Ph.D., Department of Chemistry, NCSU, 2001-2003; (42) Kelly Stevens, Food Science, 2001-2003; (43) Jason Nolan, Ph.D., Department of Chemistry, NCSU, 2001-2003; (44) Damiam Young, Ph.D., Department of Chemistry, NCSU, 2001-2003; (45) James Dixon, Ph.D., Department of Chemistry, NCSU, 1999-2003; (46) Xinhui Lou, Ph.D., Department of Chemistry, NCSU, 2001-2003, (47) Haibo Li, Ph.D., Department of Chemistry, 2001-2003; (48) Ibrahim Bori, Ph.D., Chemistry, 2002-

2003, (49) Yang Shen, Ph.D., Chemistry, 2003; (50) Steve McCall, Chemistry, NCSU, 2003; (51) Cexiong Fu, Chemistry, NCSU, 2003, (52) Tong Wu, Chemistry, NCSU, 2003, (53) Angela Mulder, Ph.D., Chemistry, NCSU, 2002-2003; (54) Weijuan Ni, 1999-2003, Ph.D. Department of Chemistry, NCSU; (55) Seongwon Hong, Ph.D., College of Pharmacy, University of North Carolina, Chapel Hill, 2002-2004; (56) Jun Yan, Ph.D., Department of Chemistry, NCSU, 2000-2004, (57) Beth Wilson, Ph.D., GSU, 2003; (58) Darshak Patel, M.S., GSU, 2004; (59) Regan LeBlanc, Ph.D., 2005; (60) Prashanth Athri, Ph.D., GSU, 2005-2006; (61) Meena Dowlut, Ph.D., University of Alberta, 2006; (62) Gurpreet Kaur, GSU, Ph.D., Chemistry, 2002-2006; (63) Osbourne Quaye, GSU, Ph.D., Chemistry, 2006; (63) Ning Chen, Ph.D., GSU, 2006; (64) Yun Huang, Ph.D., GSU, 2006; (66) Janet Jones, Ph.D., GSU, Chemistry, 2001-2007, (67) Sandra Craig, Ph.D., GSU, Chemistry, 2002-2007; (68) Sarah Shealy, Ph.D., GSU, Chemistry, 2007; (69) Jun He, Ph.D., GSU, Chemistry, 2007; (70) Jun Seok Kim, Ph.D., GSU, Chemistry, 2007; (71) Nga Ta, M.S., GSU, Biology, 2008; (72) Shan Jin, Ph.D. GSU, Chemistry, 2005-2009, (73) Seno Akay, Ph.D, GSU, 2003-present; (74) Xiaochuan Yang, Ph.D. Chemistry, GSU, 2005-present; (75) Suazzette Reid, Ph.D., 2005-present; (76) Nanting Ni, Ph.D., 2006-present, (77) Yunfeng (Jerry) Cheng, 2006-present; (78) Weixuan Chen, Ph.D., GSU, Chemistry, 2007-present; (79) Hanjing Peng, Ph.D., GSU, Chemistry, 2007-present; (80) Kevin Francis, Ph.D. 2007-present; (81) Jiang Wu, Ph.D. GSU, Chemistry, 2008-present; (82) Bin Wang, Ph.D. GSU, Chemistry, 2008-present; (83) Shirlene Jackson-Beckford, Chemistry, Ph.D., GSU, 2008-present; (84) Rong Fu, Chemistry, Ph.D. GSU, 2008-2010; (85) Yidan Liu, Chemistry, MS, GSU, 2007-2009; (86) Manindar Kaur , Ph.D. GSU, 2009-present; (87) Elizabeth Raux, M.S. Chemistry, GSU, 2009-2010; (89) Chao Yang, Ph.D. Chemistry, GSU, 2009-present; (90) Yan Chen, Ph.D. Chemistry, GSU, 2010-present; (91) Shirish Paranjpe, Ph.D. Chemistry, GSU, 2010-present; (92) Bo Zhang, Ph.D. Chemistry, GSU, 2010-present; (93) Garfield Beckford, Ph.D. Chemistry, GSU, 2011-present; (94) Jiafeng Geng, Ph.D., Chemistry, GSU, 2011-present; (95) Huiyuan Sun, Ph.D. Chemistry, GSU, 2011-present.

Professional Membership

- 1) American Chemical Society
- 2) American Association for the Advancement of Sciences
- 3) American Association of Colleges of Pharmacy (1995-1996)
- 4) American Peptide Society (1995-98)
- 5) Kappa Psi Pharmaceutical Fraternity
- 6) Psi Lambda Upsilon Honor Society in Chemistry
- 7) Rho Chi Pharmacy Honor Society
- 8) Sigma Xi
- 9) Phi Kappa Phi Honor Society

Other Experiences

Departmental/College Level Services

- 1) 1995-96, Member of Pharmacology & Toxicology New Faculty Search Committee, College of Pharmacy, University of Oklahoma Health Sciences Center.
- 2) 1995-96, Member of Medicinal Chemistry New Faculty Search Committee, College of Pharmacy, University of Oklahoma Health Sciences Center.
- 3) 1994, Member of University of Oklahoma College of Pharmacy Curriculum Committee, Electives Subcommittee.
- 4) 1995-1996, Member of University of Oklahoma College of Pharmacy Dissertation Review Committee.
- 5) 1996-2001, Member of Graduate Recruitment & Admissions Committee, Department of Chemistry, North Carolina State University.
- 6) 1996-1997, Member of Seminar Committee, Department of Chemistry, North Carolina State University.
- 7) 1996-1998, Member of Graduate Awards & Faculty Nomination Committee, Department of Chemistry, North Carolina State University.
- 8) 1996-1998, Member of X-Ray Users Committee, Department of Chemistry, North Carolina State University.

- 9) 1998-2000, Safety and Security Committee, Department of Chemistry, North Carolina State University.
- 10) 1998-Present, Teaching Resources Committee, Department of Chemistry, North Carolina State University.
- 11) 1998-Present, Undergraduate Scholarships and Awards Committee, Department of Chemistry, North Carolina State University.
- 12) 1998-2000, member of the College of Physical and Mathematical Sciences Dean's Advisory Council.
- 13) 1999-2002, Director, Honors Program, Department of Chemistry, North Carolina State University.
- 14) 2002-2003, Member, Faculty Search Committee, Department of Chemistry, North Carolina State University.
- 15) 2003-2004 (chair), 2004-2005 (Chair), 2005-2006 (Chair), Faculty Search Committee, Department of Chemistry, Georgia State University.
- 16) 2003-present, Department Seminar Committee, Department of Chemistry, Georgia State University.
- 17) 2007-2008, New Faculty Search Committee, Department of Chemistry, Georgia State University
- 18) 2006, Member (elected) of chair evaluation committee, Department of Chemistry, Georgia State University
- 18) 2005-present, Eminent Scholar Search Committee (Biology), College of Arts and Sciences, Georgia State University
- 19) 2007-present, Executive Committee (Elected), Department of Chemistry, Georgia State University
- 20) 2009, Member (elected) of chair evaluation committee, Department of Chemistry, Georgia State University
- 21) 2008-2009, New Faculty Search Committee, Department of Chemistry, Georgia State University
- 22) 2009-2010, New Faculty Search Committee (Chair, 3 positions), Department of Chemistry, Georgia State University
- 23) 2009-2010, New Faculty Search Committee (Bioinformatics), Department of Computer Sciences, Georgia State University
- 24) 2010, GRA Eminent Scholar Search Committee (Chair), Department of Chemistry, Georgia State University

- 25) 2010, Director, Center for Diagnostics and Therapeutics (in preparation), Georgia State University
- 26) 2010, Member, Dean's Search Committee, College of Arts and Sciences, Georgia State University
- 27) 7/1/2011-, Chair, Department of Chemistry, Georgia State University
- 28) 7/1/2011, Co-Director, Center for Biotechnology and Drug Design, Georgia State University

University Level Services

- 1) 1995-1996, Member of University Research Council, University of Oklahoma Health Sciences Center.
- 2) 1995-1998, Member of Graduate College Graduate Faculty Appointments Committee, University of Oklahoma Health Sciences Center.
- 3) 1995, Member of University of Oklahoma Health Sciences Center Multi-Culture Award Selection Committee.
- 4) 1995-1996, Member of the University of Oklahoma Health Sciences Center Graduate Education and Research Day Committee
- 5) 1996, Member of Summer Undergraduate Research & Education Program Selection Committee, University of Oklahoma Health Sciences Center.
- 6) 1994-1996, Faculty Leadership Program, College of Pharmacy, University of Oklahoma Health Sciences Center.
- 7) 1997-1998, University-Wide Genomic Science Center Steering Committee, North Carolina State University.
- 17) 2000-2003, University Standing Committee on International Programs, North Carolina State University.
- 18) 2005-2007, University Intellectual Property Committee, Georgia State University.
- 19) 2008, University Presidential Search Committee, Georgia State University
- 20) 2008, Organizing chair, Center for Diagnostics and Therapeutics (Preparatory), Georgia State University
- 21) 2009, Member, GSU Second Century Initiative Review Committee
- 22) 2010, Member, GSU Second Century Initiative Review Committee

Professional Services

- 1) Officers and Advisory boards: (1) 1995, Chairman, American Chemical Society, Oklahoma Section; (2) 2002-2004, Member, Long-rang Planning Committee, American Chemical Society, Division of Medicinal Chemistry; (3) 2004-present, Advisory Committee member, Center for Cancer Research and Therapeutic Development (CCRTD), Clark Atlanta University (4) 2005-Present, Scientific Advisory Board, National Key Lab of Natural and Biomimetic Drugs, Beijing University; (5) Member of Scientific Advisory Group, Georgia Research Alliance Statewide Biotech Initiative (Vaccines and Therapeutics), 2005-2007; (6) Georgia Cancer Coalition Scientific Review Advisory Board, 2005-present; 7) Member of Scientific Advisory Committee, State Key Lab in Natural and Biomimetic Drugs, Peking University, China, Since 2005; 8) Expert Reviewer, The Thousand Talents Program, Chinese Central Government
- 2) Reviewer for (1) *J. Am. Chem. Soc.*; (2) *Proc. Nat. Acad. Sci.; USA*; (3) *Angew. Chemie Int. Ed.*; (4) *J. Pharm. Sci.*; (5) *Bioorg. Med. Chem.*; (6) *J. Peptide Res.*; (7) *Bioorg. Med. Chem. Lett.*; (8) *Pharm. Res.*; (9) *J. Org. Chem.*; (10) *J. Med. Chem.*; (11) *Macromolecule*; (12) *J. Poly. Sci.*; (13) *Curr. Med. Chem.*; (14) *Org. Lett.*; (15) *Tetrahedron*; (16) *Tetrahedron Lett.*; (17) *J. Controlled Release*; (18) *Synthesis*; (19) *European J. Pharm. Sci.*; (20) *J. Heterocycl. Chem.*; (21) *J. Pharm. Biomed. Anal.*; (22) *Austra. J. Chem.*; (23) *J. Phys. Chem.*; (24) *J. Comb. Chem.*; (25) *QSAR and Combinatorial Science*; (26) *Int. J. Pharm.*; (27) *Chem. Commun.*; (28) *Molecules*; (29) *J. Fluorescence*; (30) *Bioorg. Chem.*; (31) *New J. Chem.*; (32) *Sensors & Actuators*; (33) *J. Mater. Chem.*; (34) *Anal. Chim. Acta*; (35) *J. Inorg. Biochem.*; (36) *J. Photochem. Photobiol.*; (37) *Biochemistry*; (38) *ChemBioChem*; (39) *Cancer Lett.*; (40) *Drug Discovery Today*; (41) *J. Mol. Graph. Model*; (42) *J. Heterocyclic Chem.*; (43) *Synlett*; (44) *Chem. Biol. Drug Design*; (45) *Lett. Drug Design Disc.*; (46) *Anal. Chim. Act.*; (46) *Biomacromolecules*; (47) *Cancer Lett.* (48) *Bioconjug. Chem.*; (49) *J. Phys. Chem.*; (50) *Carbohydrate Res.*; (51) *Sensors*; (52) *J. Inclus. Phenom. Macrocy. Chem.*; (53) *Appl. Spectroscopy*; (54) *Langmuir*; (55) *Org. Biomol. Chem.*; (56) *J. Mol. Recogn.*; (57) *J. Mol. Graph. Model.*; (58) *Chem.-A Asian J.*; (59) *Chem.-A Europ. J.*; (60) *Supramolecular Chem.*, (61) *Mol. Pharmaceutics*, (62) *Analytical Chem.*; (63) *Mini-Rev. Org. Chem.*; (64) *Mini-Rev. Med. Chem.*; (65) *Microbiology*; (66) *ACS Med. Chem. Lett.*; (67) *Chem. Rev.*; (68) *ACS Comb. Sci.*; (69) *Amino Acids*; (70) *J. Agr. Food Chem.*; (71) *Mol. BioSystems*; (72) *Org. Chem. Int.*
- 3) Grant reviewer for (1) *Research Corporation*; (2) *Petroleum Research Fund* (American Chemical Society); (3) *National Science Foundation*; (4) *National Institutes of Health* (Study Section on Innovative Technologies for the Molecular Analysis of Cancer, March and November 2002, March 2005, November 2005, June 2006, March 2007); Study Section on Novel Technologies for the Noninvasive Detection, Diagnosis and Treatment of Cancer, May 2002; Postdoctoral Fellowship, May 2003; Study Section on *Drug Development and Delivery* (Biophysical and Chemical Sciences), November 2003 and November 2004; Study Section on Cooperative Research for the Development of Vaccines, Adjuvants, Therapeutics, Immunotherapeutics and Diagnostics for Biodefense and SARS, February 3-5, 2004; Study Section on Synthetic and Biological Chemistry (BCMB), July 2005; Study Section on Cooperative Research Partnerships for Biodefense, Feb., 2006, April 2007; Study Section on *In Vivo* Cellular and Molecular Imaging Centers (ICMICS), November 14-15, 2006, March 2010, March 2011; Study Section on Cancer Biomarkers, June 10-11, 2008 (mail); Study Section on Postdoctoral fellowships (Biological Chemistry & Macromolecular Biophysics (BCMB)), June 26, 2008; Study Section on Cellular Probes, July 29, 2008; Study Section on Cancer Diagnostic and Treatment SBIR/STTR, October 2008, March 2009, October 2009; Recovery Act Challenge Grants: 2009/10 ZRG1 BCMB-P (58), 2009/10 ZRG1 BST-M (58), 2009/10 ZRG1 CB-N (58); NIAID Special Emphasis Panel

(P01, ZAI1 LR-M), March 2010; Synthetic and Biological Chemistry B, June 2, 2010; Study Section on "Partnerships for Biodefense" (RFA-AI-10-003), September 21, 2010; Study Section on "Partnerships for Biodefense" (RFA-AI-10-003) September 29, 2010; Synthetic and Biological Chemistry A, October 7-8, 2010; Permanent member, Synthetic and Biological Chemistry Study Section A, 2011-2017; (5) *Research Council of Canada*; (6) The South Dakota EPSCoR; (7) Engineering and Physical Sciences Research Council, UK, 2008, 2009; (8) Chang-Jiang Scholar Fund, Ministry of Education, China, 2008 (4), 2009 (10); (9) North Carolina Biotechnology Center; (10) Israel Science Foundation; (11) Natural Science Foundation of China

- 4) Editorial board services: (1) 2001-present, Editor-in-Chief, *Medicinal Research Reviews*; (2) 2004-present, Chief Editor, Wiley Series in Drug Discovery and Development; (3) 1999-2002 (resigned), Member of Editorial Advisory Board, *Current Medicinal Chemistry*; (4) September 2002-2008 (resigned), Member, Editorial Board, *Letters in Drug Design & Discovery*; (5) Since January 2005, Member of Editorial Board, *Acta Pharmaceutica Sinica*; (6) Editorial Board member, *Chemical Biology and Drug Design*, Since June 2005; (7) Editorial Board Member, *J. Chin. Pharm. Sci.* since December 2006; (8) Editorial Board Member, *Chem. J. Chin. Univ.*
- 5) Meeting and symposium organization and services: (1) September 2001, Chair, Symposium on Biosensor, 53rd Annual Meeting of the Southeastern Region of the American Chemical Society (SERMACS), September 23-26, 2001; (2) 2002, Chair, Chemical Sensors in Drug Discovery, 28th National Medicinal Chemistry Symposium, June 8-12, 2002, San Diego, CA; (3) Session Chair on Kinases, Phosphatases, and Integrins, Division of Medicinal Chemistry, 224th ACS National Meeting, Boston, August 18-22, 2002; (4) Member, Organizing Committee (The other members are Chris Lipinski, Ed Kerns, Ron Borchardt, Dhiren Thakker), Workshop on Pharmaceutical Profiling in Drug Discovery for Lead Selection, jointly sponsored by the American Association of Pharmaceutical Scientists and the American Chemical Society-Medicinal Chemistry Division, May 2003; (5) 2004 SERMACS undergraduate presentation judge, November 16, 2003; (6) Co-Organizer and Co-chair, *Progress of Chinese American Chemists in Academia*, at the 226th American Chemical Society National Meeting, New York, September 2003; (7) Organizer and Chair, *Recent Progress in Diabetes Research*, 227th American Chemical Society National Meeting, Anaheim, March 2004; (8) Organizing Committee, 2nd Georgia State University Biotechnology Symposium, 2004; (9) Organizing Committee, the First Sino-US Chemistry Professors Symposium (Organic and Bioorganic Chemistry), Tianjin, China, June 13-14, 2005; (10) Chair and Organizing Committee member, Symposium on Boronic Acid held at the 2005 Pacificchem, December 13-19, Hawaii; (11) Co-chair and Co-organizer (with Geert-Jan Boons of UGA), Symposium on Carbohydrate Recognition held at the 231st ACS National Meeting, March 26-30, 2006, Atlanta, GA; (12) Organizing Committee, The Second Sino-US Chemistry Professors Conference (Organic and Bioorganic Chemistry), Shanghai China, July 8-10, 2006; (13) Organizing Committee Member, Lanzhou International Symposium on Medicinal and Organic Chemistry, July 11-12, Lanzhou, China; (14) Organizing Committee, The 5th International Symposium for Chinese Medicinal Chemists, November 2-7, 2006, Nanjing, China; (15) Organizing Committee, The Third Sino-US Chemistry Professors Conference (Organic and Bioorganic Chemistry), Wuhan, China, June 1-2, 2007; (16) Organizing Committee, The Fourth Sino-US Chemistry Professors Conference (Organic and Bioorganic Chemistry), Beijing, China, June 12-13, 2008; (17) Organizing Committee, 2009 Georgia Cancer Coalition Cancer Symposium; (18) Organizing Committee, 2009 Georgia State University Biotechnology Symposium (Advances in Cancer Research: Biomarkers Detection - Epigenetic Gene Regulation); (19) Member of Advisory Board, 14th ISCB Conference (ISCB-2010) Chemical

Biology for Discovery: Perspectives, and Challenges, Jan 15-18, 2010, Lucknow India; (20) Chair, Organizing Committee, Boronic Acid Symposium, PacifiChem 2010, Hawaii, US, December 15-20, 2010; (21) Chair, Organizing Committee, Symposium on Carbohydrate Recognition, PacifiChem 2010, Hawaii, US, December 15-20, 2010; (22) Member, International Advisory Committee, Sino-US Chemistry Professors Conference, 2009-present (5th in 2009, 6th in 2010, 7th in 2011)