

*Curriculum Vitae*  
**Alanna Schepartz**

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**Born:** January 9, 1962, NYC

**Education**

1982 B.S., Chemistry; State University of New York, Albany, NY (with S. Bank)  
1987 Ph.D., Chemistry; Columbia University, New York, NY (with R. Breslow)

**Professional**

*California Institute of Technology*

1987-1988 National Institutes of Health Postdoctoral Fellow (with P.B. Dervan)

*Yale University*

1988 Assistant Professor of Chemistry  
1992 Associate Professor of Chemistry  
1994 Milton Harris, '29 Ph.D. Associate Professor of Chemistry  
1995 Professor of Chemistry  
2002-2007 Howard Hughes Medical Institute Professor  
2000-present Milton Harris, '29 Ph.D. Professor of Chemistry  
2001-present Professor of Molecular, Cellular and Developmental Biology  
2011-2014 Director, Yale Chemical Biology Institute

**Awards and Honors**

*SUNY@Albany*

1982 Presidential Award for Undergraduate Research

*Columbia University*

1983 Award for Excellence in Teaching  
1986 Pegram Award for Graduate Research

*California Institute of Technology*

1987 N.I.H. Postdoctoral Fellowship

*Yale University*

1990 David and Lucile Packard Foundation Fellow  
1991 Eli Lilly Biochemistry Fellow  
1991 Morse Faculty Fellow, Yale University  
1991 National Science Foundation Presidential Young Investigator Award  
1993 Camille and Henry Dreyfus Teacher-Scholar Award  
1994 Alfred P. Sloan Research Fellowship

1995 Invited Lecturer, National Organic Symposium  
 1995 A.C.S. Arthur C. Cope Scholar Award  
 1997 A.C.S. Eli Lilly Award in Biological Chemistry  
 1998-2001 Chair, N.I.H. Study Section on Natural Products and Bioorganic Chemistry  
 1999 Dylan Hixon '88 Award for Teaching Excellence in the Natural Sciences  
 2002 Agnes Fay Morgan Research Award, Iota Sigma Pi  
 2002-2007 Howard Hughes Medical Institute Professor  
 2003 Fellow, American Association for the Advancement of Science  
 2003-2005 Editorial Advisory Board, *Journal of the American Chemical Society*  
 2005 Invited Lecturer, National Organic Symposium  
 2005-present Associate Editor, *Journal of the American Chemical Society*  
 2008 Frank H. Westheimer Prize Medal, Harvard University  
 2010 ACS Chemical Biology Prize & Prize Lecture (inaugural recipient)  
 2010 Alexander M. Cruickshank Prize  
 2010 Elected Fellow, American Academy of Arts & Sciences  
 2010 Elected Fellow, American Chemical Society  
 2012 A.C.S. Ronald Breslow Award for Achievement in Biomimetic Chemistry  
 2014 Elected Member, National Academy of Sciences  
 2015 Elected Member, Connecticut Academy of Science and Engineering  
 2015 Wheland Medal, University of Chicago

#### Service

1994-present Editorial Board, *Chemistry & Biology*  
 1995-1996 Member, Organizing Committee, Symposium on the Frontiers of Science  
 1995-1996 Co-organizer, Symposium on the Chemistry of Gene Regulation, Biological Chemistry Division, American Chemical Society  
 1995-1997 Member, ACS Nakanishi Prize Committee  
 1995-1998 Member, N.I.H. Study Section on Bioorganic and Natural Products Chemistry  
 1997-1998 Co-Editor, Interactions, Assembly and Processing, *Current Opinion Chemical Biology*  
 1997-present Editorial Board, *Current Opinion in Chemical Biology*  
 1998-2000 Chair, N.I.H. Study Section on Bioorganic and Natural Products Chemistry  
 2000 Invited Participant, Presidents Workshop on Gender Equity in Academic Science, MIT  
 2003-present Executive Board, Yale University Center for Genomics and Proteomics  
 2003-present Co-Director, Yale University Center for Chemical Genomics  
 2005-present Associate Editor, *Journal of the American Chemical Society*  
 2007-2009 Member, ACS Cope Scholar Selection Committee  
 2008 Advisory Board, *Faculty of 1000 Medicine Reports*  
 2009 Co-organizer, A.C.S. Symposium on Seeing Inside Cells  
 2008-2013 Member, Searle Scholars Advisory Board Committee  
 2009-2011 Chair, Yale Chemical Biology Institute Advisory Committee  
 2010-2013 Chair, Searle Scholars Advisory Board  
 2012 Co-Editor, Molecular Imaging, *Current Opinion Chemical Biology*

- 2013 Co-Editor, *Supramolecular Chemistry for Biology, Materials and Medicine, Israel Journal of Chemistry*
- 2015 Member, Harvard FAS Life Sciences Review Committee
- 2015-2016 Selection Committee, Wolf Foundation Prize in Chemistry
- 2016 Member, Princeton Academic Review Committee (Department of Chemistry)
- 2016 Member, Harvard Academic Review Committee (Department of Chemistry and Chemical Biology)

#### Consulting

- 1988-1991 Consultant, Merck & Co.
- 1995-1997 Consultant, Hoffmann-La Roche, Inc.
- 1995-1999 Consultant, Levine & Wardlaw, LLP
- 1995-1999 Consultant, Hoechst Marion Roussel, Inc.
- 1997-2001 Scientific Advisory Board, Consortium for Plasma Science, LLC.
- 1999-2002 Consultant, Aventis Pharmaceuticals
- 2008 Founder, Experimed Bioscience
- 2011-present Member, Scientific Advisory Board, Permeon Biologics

#### Selected Distinguished Lectures

- 2001 4<sup>th</sup> Lausanne Conference on Bioorganic Chemistry, University of Lausanne  
Gordon Conference on Natural Products  
National Foundation for Cancer Research Conference: Data for a Cure
- 2002 Isis Lecture, University of California – San Diego  
Symposium Speaker, 224<sup>th</sup> ACS National Meeting  
Symposium Speaker, 225<sup>th</sup> ACS National Meeting
- 2003 Student Invited Seminar, Department of Chemistry, University of Utah  
Bader Award Symposium, 226<sup>th</sup> ACS National Meeting  
Biophysics Symposium, Yale University  
Breslow Award Symposium, 227<sup>th</sup> ACS National Meeting
- 2004 Gordon Research Conference on Peptides  
Aventis Frontiers of Medicine Symposium  
Proteins: Folding, De novo Design and Interactions Symposium
- 2005 Bristol Myers Squibb Lecture, University of California-Irvine  
National Organic Chemistry Symposium
- 2006 Student Invited Lecture, Harvard University  
Bioorganic Gordon Conference  
Linus Pauling Award Symposium
- 2008 Chemistry as a Life Science XIV  
Life Sciences Institute Chemical Biology Symposium  
Chemical Insights into Biological Processes Symposium, NCI  
22<sup>nd</sup> Annual Symposium of the Protein Society  
Novartis Lecture, University of Illinois at Urbana-Champaign  
The Frank H. Westheimer Prize Lecture, Harvard University
- 2009 Naff Symposium, University of Kentucky

- Chemical Synthetic Biology Symposium, 236<sup>th</sup> ACS National Meeting  
 Seeing Inside Cells Symposium, 237<sup>th</sup> ACS National Meeting  
 Rosenfeld Lecture, Smith College
- 2010** Foldamers Symposium: From Design to Protein Recognition  
 ACS Chemical Biology Prize Lecture, 239<sup>th</sup> ACS National Meeting  
 Distinguished Women in Science Colloquia Series, Stanford University  
 Alexander M. Cruickshank Prize Lecture, Gordon Research Conference on Biopolymers  
 Chemistry of the Cell Symposium, Royal Society of Chemistry
- 2011** Lorne Conference on Protein Structure and Function, Melbourne, Australia  
 Recent Progress in Catalytic and Biomimetic Chemistry, 240<sup>th</sup> ACS National Meeting  
 Peptide-Based Drug Delivery, Drug Discovery, and Biomaterials, ASBMB 46<sup>th</sup> EuChem Conference on Stereochemistry (Bürgenstock)  
 Gordon Research Conference on Proteins  
 3<sup>eme</sup> Cycle Lecture Tour, Swiss National Science Foundation
- 2012** Student Invited Lecture, Princeton University  
 Ronald Breslow Award for Achievement in Biomimetic Chemistry Lecture  
 Symposium in Honor of Alanna Schepartz, 243<sup>rd</sup> ACS National Meeting  
 Current Views on Secondary Structure, 243<sup>rd</sup> ACS National Meeting  
 Student Invited Lecture, Division of Chemistry & Chemical Engineering, California Institute of Technology  
 Student Invited Lecture, Department of Biology, Pittsburgh University  
 The 26<sup>th</sup> Annual Symposium of The Protein Society  
 Chemical Biology 2012, EMBO Conference Series  
 Dreyfus Foundation Teacher-Scholar Symposium
- 2013** Novartis Lecturer, University of Pennsylvania  
 Bristol-Myers Squibb Lecturer, The Scripps Research Institute  
 Chemical Biology Discussion Group Year-End Symposium, Keynote speaker, New York Academy of Sciences  
 3<sup>rd</sup> Frontiers Between Chemistry and Biology Symposium, Peking University  
 Morningside Lecturer in Chemical Biology, University of Hong Kong  
 Plenary Lecture, 11<sup>th</sup> International Conference on Advancing the Chemical Sciences, Boston, MA
- 2014** Student Invited Lecture, The Johns Hopkins University School of Medicine  
 Keynote Speaker, Harvard Chemical Biology Retreat  
 Graduate Research Symposium, University of California, Irvine  
 The Vollum Institute, Oregon Health & Science University  
 Chemistry: Biology Interface Armenise Symposium, Harvard Medical School
- 2015** Women in Science at Columbia, Columbia University  
 National Academy of Sciences, Washington D.C.  
 15<sup>th</sup> Annual CMD Symposium, Boston University  
 Novartis Chemical Sciences Lecturer, University of California, UC Berkeley  
 Wheland Award Lectures, University of Chicago

Sanders Tri-Institutional Chemical Biology Lecture, Memorial Sloan Kettering  
Cancer Center

2016 International Symposium on Chemical Biology, Geneva  
Symposium Speaker, 251st ACS National Meeting, San Diego, CA  
Wageningen Symposium on Organic Chemistry Lecture, The Netherlands  
Bioorganic Chemistry Gordon Conference, Proctor Academy, NH

## Publications

1. Substituent Effect on the Electrochemical Oxidation of Arylmethyl Anions. 3. Effect of Methyl Substitution on Diarylmethyl Anions. S. Bank, A. Schepartz, P. Giammateo, J. Zubietta, *J. Org. Chem.* **1983**, *48*, 3548-3564.
2. Hydrolysis of an Amide in a Carboxypeptidase Model Using Co(III) and Bifunctional Catalysts. A. Schepartz & R. Breslow, *J. Am. Chem. Soc.* **1987**, *109*, 1814-1826.
3. On the Mechanism of Catalysis by the Enzyme Carboxypeptidase A. R. Breslow & A. Schepartz, *Chem. Lett.* **1987**, 1-4.
4. Self-Assembling Ionophores. A. Schepartz & J.P. McDevitt, *J. Am. Chem. Soc.* **1989**, *111*, 5976-5977.
5. Site-Specific Cleavage of the Protein Calmodulin Using a Trifluoperazine-Based Affinity Reagent. A. Schepartz & B. Cuenoud, *J. Am. Chem. Soc.* **1990**, *112*, 3247-3249.
6. Synthesis of  $\alpha$ -BOC- $\epsilon$ -EDTA-Lysine Tribenzyl Ester. An Amino Acid Analog Suitable for Solid Phase Peptide Synthesis. B. Cuenoud & A. Schepartz, *Tetrahedron* **1991**, *47*, 2535-2542.
7. Tethered Oligonucleotide Probes. A Strategy for the Recognition of Structured RNA. P. Richardson & A. Schepartz, *J. Am. Chem. Soc.* **1991**, *113*, 5109-5111.
8. Polyether Tethered Oligonucleotide Probes. S.T. Cload & A. Schepartz, *J. Am. Chem. Soc.* **1991**, *113*, 6324-6326.
9. A General Scheme for Incorporating Nonnatural Functionality into Peptides. B. Cuenoud & A. Schepartz, *Tetrahedron Lett.* **1991**, *32*, 3325-3328.
10. Binding of Alkali Cations by Self-Assembling Ionophore Complexes of Ni(II). M.W. Jones, N. Gupta, A. Schepartz & H. Thorpe, *Inorg. Chem.* **1992**, *31*, 1308-1310.
11. A New Strategy for Directed Protein Cleavage. B. Cuenoud, T. Tarasow & A. Schepartz, *Tetrahedron Lett.* **1992**, *33*, 895-898.
12. Conformation-Dependent Cleavage of Staphylococcal Nuclease with a Disulfide-Linked Iron Chelate. M. Ermacora, J.M. Delfino, B. Cuenoud, A. Schepartz & R.O. Fox, *Proc. Natl. Acad. Sci. USA* **1992**, *89*, 6383-6387.
13. Protein-Cleavage Mapping: A New Tool for Drug Discovery and Protein Folding Studies. M. Hayward & A. Schepartz, in *Perspectives in Medicinal Chemistry*, Testa, B., Kyburz, E., Fuhrer, W.; Giger, R., Eds., Verlag: Basel, **1993**, p. 501-512.
14. Design of a Metallo-bZIP Peptide that Discriminates Between CRE and AP1 Target Sites: Selection Against AP1. B. Cuenoud & A. Schepartz, *Proc. Natl. Acad. Sci. USA* **1993**, *90*, 1154-1159.
15. Altered Specificity of DNA-Binding Proteins with Transition Metal Dimerization Domains. B. Cuenoud & A. Schepartz, *Science* **1993**, *259*, 510-513.

16. A Kinetic and Thermodynamic Analysis of RNA Binding by Tethered Oligonucleotide Probes: Alternative Structures and Conformational Changes. S.T. Cload, P.L. Richardson, Y. Huang & A. Schepartz, *J. Am. Chem. Soc.* **1993**, *115*, 5005-5014.
17. Selection of Structure-Specific Inhibitors of the HIV Rev–Rev Response Element Complex. S.T. Cload & A. Schepartz, *J. Am. Chem. Soc.* **1994**, *116*, 437-443.
18. DNA Targets for Certain bZIP Proteins Distinguished by an Intrinsic Bend. D.N. Paoletta, C.R. Palmer & A. Schepartz, *Science* **1994**, *264*, 1130-1133.
19. Mapping Regions in Eukaryotic Ribosomes that are Accessible to Methidiumpropyl-EDTA•Fe(II) and EDTA•Fe(II). H. Han, A. Schepartz, M. Pelligrini & P.B. Dervan, *Biochemistry* **1994**, *33*, 9831-9844.
20. Distribution of Labor Among CRE-BP1 bZIP Segments in the Control of DNA Affinity and Specificity. S.J. Metallo & A. Schepartz, *Chem. Biol.* **1994**, *1*, 143-152.
21. A Uniquely Modified RNA: Site-Specific Introduction of a Single RNA Cleavage Agent into the M1 Ribozyme. P.L. Richardson, M.L. Gross, R.D. Smith, K.J. Light-Wahl, & A. Schepartz, *Bio. Med. Chem. Lett.* **1994**, *4*, 2133-2138.
22. Mechanistic Studies on the Formation of bZIP•DNA Interfaces: A Simple Example of Supramolecular Stereochemistry. D.N. Paoletta, C.R. Palmer, S.J. Metallo & A. Schepartz, in *Supramolecular Stereochemistry*, J. Siegel, Ed. NATO Adv. Ser. **1995**, 83-90.
23. Peptide Models of bZIP Proteins: Quantitative Analysis of DNA Affinity and Specificity. S.J. Metallo & A. Schepartz, *Tech. Protein Chem.* **1995**, *6*, 385-391.
24. Nonspecific DNA Bending and the Specificity of Protein•DNA Interactions. A. Schepartz, *Science* **1995**, *269*, 988-989.
25. Convenient Syntheses of Reagents for Cleavage Mapping Experiments. M. H. Hayward, J. C. Adrian, Jr. & A. Schepartz, *J. Org. Chem.* **1995**, *60*, 3924-3927.
26. Mechanism of DNA Binding Enhancement by the HTLV-I Transactivator Tax. A.M. Baranger, C.R. Palmer, M.K. Hamm, H. A. Giebler, A. Brauweiler, J.K. Nyborg, & A. Schepartz, *Nature* **1995**, *376*, 606-608.
27. DNA Bending and Binding by Metallo-Peptide Models of bZIP Proteins. C.R. Palmer, L.S. Sloan, J.C. Adrian, Jr., B. Cuenoud, D.N. Paoletta & A. Schepartz, *J. Am. Chem. Soc.* **1995**, *117*, 8899-8907.
28. Studies on the Formation of Protein•DNA Interfaces: DNA Specificity and Straightening by CREB. M.K. Hamm & A. Schepartz, *Bio. Med. Chem. Lett.* **1995**, *5*, 1621-1626.
29. Conformation of Tax-response elements in the human T-cell leukemia virus type I promoter. J.M. Cox, L.S. Sloan & A. Schepartz, *Chem. Biol.* **1995**, *2*, 819-826.
30. Triplex Tethered Oligonucleotide Probes. A.C. Moses & A. Schepartz, *J. Am. Chem. Soc.* **1996**, *118*, 10896-10897.
31. Certain bZIP Proteins Bind DNA Sequentially as Monomers and Dimerize on the DNA. S.J. Metallo & A. Schepartz, *Nat. Str. Biol.* **1997**, *4*, 115-117.
32. Inhibition of Rev•RRE Complexation by Triplex Tethered Oligonucleotide Probes. A.C. Moses, S.W. Huang & A. Schepartz, *Bioorg. Med. Chem.* **1997**, *5*, 1123-1129.
33. Electrostatic Mechanism for DNA Bending by bZIP Proteins. D.N. Paoletta, Y. Liu & A. Schepartz, *Biochemistry* **1997**, *36*, 10033-10038.

34. Bidirectional Binding of TBP to the TATA Box. J.M. Cox, M.H. Hayward, J.F. Sanchez, L.D. Gegnas, S. van der Zee, J.H. Dennis, P.B. Sigler, & A. Schepartz, *Proc. Natl. Acad. Sci. USA* **1997**, *94*, 13475-13480.
35. The role of a basic amino acid cluster in target site selection and nonspecific binding of bZIP peptides to DNA. S.J. Metallo, D.N. Paolella, & A. Schepartz, *Nucl. Acids Res.* **1997**, *25*, 2967-2972.
36. Kinetics and Mechanism of RNA Binding by Triplex Tethered Oligonucleotide Probes. A.C. Moses & A. Schepartz, *J. Am. Chem. Soc.* **1997**, *119*, 11591-11597.
37. Induced DNA bending by the Zn<sub>2</sub>Cys<sub>6</sub> binuclear cluster protein PUT3. P. Hoffmann & A. Schepartz, *Bio. Med. Chem. Lett.* **1997**, *7*, 2049-2054.
38. Mechanism of DNA Binding Enhancement by the Hepatitis B Virus Protein X. C.R. Palmer, L.D. Gegnas, A. Schepartz, *Biochemistry* **1997**, *36*, 15349-15355.
39. Sequence determinants of the intrinsic bend in the cyclic AMP response element. L.S. Sloan & A. Schepartz, *Biochemistry* **1998**, *37*, 7113-7118.
40. Preinitiation complex assembly: Potentially a bumpy path. J.M. Cox, A.R. Kays, J.F. Sanchez & A. Schepartz, *Curr. Op. Chem. Biol.* **1998**, *2*, 11-17.
41. At the chemistry-biology interface. A. Schepartz & P.S. Kim, *Curr. Op. Chem. Biol.* **1998**, *2*, 9-10.
42. Polarity of transcription on Pol II and archaeal promoters: where is the "one-way sign" and how is it read? F.T. Tsai, O. Littlefield, P.F. Kosa, J. M. Cox, A. Schepartz & P.B. Sigler, *Cold Spring Harb. Symp. Quant. Biol.* **1998**, *63*, 53-61.
43. Highly specific DNA recognition by a designed, miniature protein. N.J. Zondlo & A. Schepartz, *J. Am. Chem. Soc.* **1999**, *121*, 6938-6939.
44. DNA specificity enhanced by sequential binding of protein monomers. J.J. Kohler, S.J. Metallo, T.L. Schneider & A. Schepartz, *Proc. Natl. Acad. Sci. USA* **1999**, *96*, 11735-11739.
45. Gene Regulation: Protein escorts to the transcription ball. J.W. Chin, J.J. Kohler, T.L. Schneider & A. Schepartz, *Curr. Biol.* **1999**, *9*, R929-R932.
46. Virtually unidirectional binding of TBP to the AdMLP TATA box within quaternary complex with TFIIA and TFIIB. A.R. Kays & A. Schepartz, *Chem. Biol.* **2000**, *7*, 601-610.
47. Hepatitis B virus X protein activates transcription by bypassing CREB phosphorylation, not by stabilizing bZIP-DNA complexes. M.K. Pflum, D. Hall, T.L. Schneider, & A. Schepartz, *Biochemistry* **2001**, *40*, 693-703.
48. Concerted evolution of structure and function in a miniature protein. J.W. Chin & A. Schepartz, *J. Am. Chem. Soc.* **2001**, *123*, 2929-2930.
49. Kinetic studies of Fos•Jun•DNA complex formation: DNA binding prior to dimerization. J.J. Kohler & A. Schepartz, *Biochemistry* **2001**, *40*, 130-142.
50. Kinetic Preference for Oriented DNA Binding by the Yeast TATA-Binding Protein TBP. Y. Liu & A. Schepartz, *Biochemistry* **2001**, *40*, 6257-6266.
51. A Roller Coaster Ride of Thrills. A. Schepartz, *Chem. Eng. News* **2001**, 125th Anniversary Issue.
52. Hepatitis B Virus protein pX enhances monomer assembly pathway of bZIP•DNA complexes. T.L. Schneider & A. Schepartz, *Biochemistry* **2001**, *40*, 2835-2843.

53. Methodology for optimizing functional miniature proteins based on avian pancreatic polypeptide using phage display. J.W. Chin, R.M. Grotzfeld, M.A. Fabian & A. Schepartz, *Bioorg. Med. Chem. Lett.* **2001**, *11*, 1501-1505.
54. Effects of nucleic acids and polyanions on dimer formation and DNA binding by dimeric transcription factors. J.J. Kohler & A. Schepartz, *Bioorg. Med. Chem.* **2001**, *9*, 2435-2443.
55. Design and evolution of a miniature Bcl-2 binding protein. J.W. Chin & A. Schepartz, *Angew. Chem. Int. Ed. Eng.* **2001**, *40*, 3806-3809. **Highlight:** *Science* **2001**, *291*, 2049.
56. Electrostatic Control of Half-Site Spacing Preferences by the cyclic AMP Response Element Binding Protein CREB. J.K. Montclare, L.S. Sloan & A. Schepartz, *Nucl. Acids Res.* **2001**, *29*, 3311-3319.
57. Gal4-VP16 and Gal4-AH increase the orientational and axial specificity of TATA box recognition by TBP. A.R. Kays & A. Schepartz, *Biochemistry* **2002**, *41*, 3147-3155. **Highlight:** Faculty of 1000 Biology: <http://www.f1000biology.com/article/id/1006604/evaluation>
58. A View to a Kill: Ligands for Bcl-2 family proteins. S.E. Rutledge, J.W. Chin & A. Schepartz, *Curr. Op. Chem. Biol.* **2002**, *6*, 479-485.
59. Miniature Homeodomains: High specificity without an N-terminal arm. J.K. Montclare & A. Schepartz, *J. Am. Chem. Soc.* **2003**, *125*, 3416.
60. Helix macrodipole control of  $\beta^3$ -peptide 14-helix stability in water. S.A. Hart, A.B.F. Bahadoor, E.E. Matthews, & A. Schepartz, *J. Am. Chem. Soc.* **2003**, *125*, 4022.
61. Molecular recognition of protein surfaces: High affinity ligands for the CBP KIX domain. S.E. Rutledge, H. M. Volkman & A. Schepartz, *J. Am. Chem. Soc.* **2003**, *125*, 14336.
62. High affinity, paralog-specific recognition of the Mena EVH1 domain by a miniature protein. D. Golemi-Kotra, R. Mahaffy, M.J. Footer, J.H. Holtzman, T.D. Pollard, J.A. Theriot & A. Schepartz, *J. Am. Chem. Soc.* **2004**, *126*, 4.
63. Helical  $\beta$ -peptide inhibitors of the p53-hDM2 interaction. J.A. Kritzer, J.D. Lear, M. Hodsdon & A. Schepartz, *J. Am. Chem. Soc.* **2004**, *126*, 9468-9469.
64. Relationship between side chain structure and 14-helix stability of  $\beta^3$ -peptides in water. J.A. Kritzer, J. Tirado-Rives, S.A. Hart, J.D. Lear, W.L. Jorgensen, & A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 167-178.
65. Paralog-selective ligands for Bcl-2 proteins. A.C. Gemperli, S.E. Rutledge, A. Maranda & A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 1596-1597.
66. Binding mode and transcriptional activation potential of high affinity ligands for the CBP KIX domain. H.M. Volkman, S.E. Rutledge, and A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 4649-4658.
67.  $\beta$ -peptide inhibitors of protein-protein interactions. J.A. Kritzer, O.M. Stephens, D.A. Guarracino. S.K. Reznik & A. Schepartz, *Bio. Med. Chem.* **2005**, *13*, 11-16.
68. Dephosphorylation of Phosphopeptides by Cerium(IV) and Other Lanthanide Ions. N.W. Luedtke & A. Schepartz, *Chem. Comm.* **2005**, *43*, 5426-5428.
69. Solution Structure of a  $\beta$ -peptide Ligand for hDM2. J.A. Kritzer, M.E. Hodsdon & A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 4118-4119.
70. Relationship between folding and function in a sequence-specific miniature DNA-binding protein. L. Yang & A. Schepartz, *Biochemistry* **2005**, *44*, 7469-7478.
71. Increasing the kinase specificity of K252a by protein surface recognition. T.L. Schneider, R.S. Mathew, K.P. Rice, K. Tamaki, J.L. Wood & A. Schepartz, *Org. Lett.* **2005**, *7*, 1695-1698.



72. Inhibiting HIV Fusion with a  $\beta$ -Peptide Foldamer. O.M. Stephens, S. Kim, B.D. Welch, M.E. Hodsdon, M.S. Kay & A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 13126-13127.
73. A Rapid Library Screen for Tailoring  $\beta$ -peptide Structure and Function. J.A. Kritzer, N.W. Luedtke, E. Harker, & A. Schepartz, *J. Am. Chem. Soc.* **2005**, *127*, 14584-14585. **Highlight:** Faculty of 1000 Biology: <http://www.f1000biology.com/article/id/1028774/evaluation>
74. Miniature protein inhibitors of the p53•hDM2 interaction. J.A. Kritzer, R. Zutshi, M. Cheah, F.A. Ran, R. Webman, T.M. Wonjirad & A. Schepartz, *ChemBioChem* **2006**, *7*, 29-31.
75. Relationship between salt-bridge identity and 14-helix stability of  $\beta^3$ -peptides in aqueous buffer. D.A. Guarracino, H.R. Chiang, T.N. Banks, J.D. Lear, M.E. Hodsdon & A. Schepartz, *Org Lett.* **2006**, *8*, 807-810.
76. Toward  $\beta$ -amino acid proteins: A cooperatively folded  $\beta$ -peptide quaternary Structure. J.X. Qiu, E.J. Petersson, E.E. Matthews & A. Schepartz, *J. Am. Chem. Soc.* **2006**, *128*, 11338-11339.
77. Encodable activators of Src family kinases. C.D. Zellefrow, J.S. Griffiths, S. Saha, A.M. Hodges, J.L. Goodman, J. Paulk, J.A. Kritzer & A. Schepartz, *J. Am. Chem. Soc.* **2006**, *128*, 16506-16507.
78. High resolution structure of a  $\beta$ -peptide bundle. D.S. Daniels, E.J. Petersson, J.X. Qiu, & A. Schepartz, *J. Am. Chem. Soc.* **2007**, *129*, 1532-1533. **Highlight:** *Chem. Eng. News* **2007**, *85*(6), 7; **Highlight:** *Chem. Eng. News* **2007**, *85*(52), 13-19; **Highlight:** Faculty of 1000 Biology: <http://www.f1000biology.com/article/id/1071733/evaluation>
79. Biophysical characterization of a  $\beta$ -peptide bundle: Comparison to natural proteins. E.J. Petersson, C. Craig, D.S. Daniels, J.X. Qiu, & A. Schepartz, *J. Am. Chem. Soc.* **2007**, *129*, 1532-1533.
80. Surveying protein conformation and association in live cells with small-molecule fluorescence. N. Luedtke, R. Dexter, D. Fried & A. Schepartz, *Nat. Chem. Biol.* **2007**, *3*, 779-784. . **Highlight:** *Science* **2007**, *318*, 1217; **Highlight:** *Nat. Methods* **2008**, *5*, 6-7
81. Miniature protein ligands for EVH1 domains: Interplay between affinity, specificity, and cell motility. J.H. Holtzman, D. Golemi-Kotra, K. Woronowicz & A. Schepartz, *Biochemistry* **2007**, *46*, 13541-13553.
82. Engineering a monomeric miniature protein. A.M. Hodges & A. Schepartz, *J. Am. Chem. Soc.* **2007**, *129*, 11024-11025.
83. Intrinsically cell-permeable miniature proteins based on a minimal cationic PPII motif. D.S. Daniels & A. Schepartz, *J. Am. Chem. Soc.* **2007**, *129*, 14578-14579. **Highlight:** *Chem. Eng. News* **2007**, *85*, 43; **Highlight:** Faculty of 1000 Biology: <http://www.f1000biology.com/article/id/1097219/evaluation>
84. Biophysical and structural characterization of a robust octameric  $\beta$ -peptide bundle. J.L. Goodman, D.S. Daniels, J.X. Qiu, E.J. Petersson & A. Schepartz, *J. Am. Chem. Soc.* **2007**, *129*, 14746-14751.
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