

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  
2000-present Milton Harris, '29 Ph.D. Professor of Chemistry  
2001-present Professor of Molecular, Cellular and Developmental Biology  
2002-2007 Howard Hughes Medical Institute Professor

**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*

### Service to Chemistry and the American Chemical Society

- 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, Symposium on Seeing Inside Cells, Biological Chemistry Division, American Chemical Society
- 2009 Founding Organizer, NSF Workshop in 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

### Recent 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

### 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. Zubieta, *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. Paolella, 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. Paolella, 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. Paoletta, & 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.
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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**, *125*, 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. Engl.* **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: <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  $\beta^5$ -peptide 14-helix stability in water. S.A. Hart, A.B.F. Bahadoor, E.E. Matthews, & A. Schepartz, *J. Am. Chem. Soc.* **2003**, *125*, 4022-4023.
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*, 14336-14342.
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*, 4-5.

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.
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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.
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85. 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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89.  $\beta$ -peptides with improved affinity for hDM2 and hDMX. E.A. Harker, D.S. Daniels, D.A. Guarracino & A. Schepartz, *Bioorg. Med. Chem.* **2009**, *17*, 2038-2046.
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