

*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*

1986-1988        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  
2000-2017        Milton Harris, '29 Ph.D. Professor of Chemistry  
2001-2019        Professor of Molecular, Cellular and Developmental Biology  
2002-2007        Howard Hughes Medical Institute Professor  
2011-2014        Director, Yale Chemical Biology Institute  
2017-2019        Sterling Professor of Chemistry

*University of California, Berkeley*

2019-present    T. Z. and Irmgard Chu Distinguished Chair in Chemistry  
2019-present    Professor of Molecular and Cellular Biology  
2019-present    Faculty Affiliate, California Institute for Quantitative Biosciences

**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  
2008 Frank H. Westheimer Prize Medal, Harvard University  
2010 A.C.S. 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 Prize Medal, University of Chicago  
2016 Editor-in-Chief, Biochemistry  
2017 Sterling Professor, Yale University  
2018 Inspiring Yale Award, Yale University  
2018 Journal Rejuvenation Award, ACS Publications

*University of California, Berkeley*

2019-present T. Z. and Irmgard Chu Distinguished Chair in Chemistry  
2020 ACS Ralph F. Hirschmann Award in Peptide Chemistry  
2020 Streck Award in Chemical Biology, University of Nebraska-Lincoln  
2021 Vincent du Vigneaud Award, American Peptide Society  
2021 Mertes Award, University of Kansas

**Selected Professional Activities**

|           |   |
|-----------|---|
| 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 |
| 1995-1998 | Member, N.I.H. Study Section on Bioorganic and Natural Products Chemistry   |
| 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                                    |
| 2003-2010 | Executive Board, Yale University Center for Genomics and Proteomics   |
| 2003-2010 | Co-Director, Yale University Center for Chemical Genomics   |
| 2008      | Advisory Board, <i>Faculty of 1000 Medicine Reports</i>   |
| 2009      | Co-organizer, Symposium on Seeing Inside Cells, Biological Chemistry Division, American Chemical Society              |
| 2008-2013 | Member, Searle Scholars Advisory Board Committee  |
| 2009-2011 | Chair, Yale Chemical Biology Institute Advisory Committee   |
| 2010-2013 | Chair, Searle Scholars Advisory Board   |
| 2010-2019 | Member, Yale Comprehensive Cancer Center  |
| 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)   |
| 2016-2020 | Member, PacifiChem Advisory Board   |
| 2017      | Member, Harvard Academic Review Committee (Department of Chemistry and Chemical Biology)                              |
| 2017-2022 | Member, Max Planck Institute Scientific Advisory Board  |
| 2018      | Chair, National Academy of Sciences Award in Chemical Sciences Selection Committee                                    |
| 2019      | Member, 2019 National Academy of Sciences Class Membership Committee  |

### Selected Editorial Activities

|              |   |
|--------------|---|
| 1994-2016    | Editorial Board, <i>Chemistry &amp; Biology</i>   |
| 1997-1998    | Co-Editor, Interactions, Assembly and Processing, <i>Current Opinion Chemical Biology</i>                   |
| 1997-present | Editorial Board, <i>Current Opinion in Chemical Biology</i>   |
| 2005-2016    | Associate Editor, <i>Journal of the American Chemical Society</i>   |
| 2012         | Co-Editor, Molecular Imaging, <i>Current Opinion Chemical Biology</i>                                       |
| 2013         | Co-Editor, Supramolecular Chemistry for Biology, Materials and Medicine, <i>Israel Journal of Chemistry</i> |
| 2016-present | Editorial Board, <i>Cell Chemical Biology</i>   |
| 2016-present | Editor-in-Chief, <i>Biochemistry</i>  |
| 2019-present | Editorial Committee, <i>Annual Review of Biochemistry</i>   |

### Selected Distinguished Lectures (since 2001)

- 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, 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, 251<sup>st</sup> ACS National Meeting, San Diego, CA  
Wageningen Symposium on Organic Chemistry Lecture, The Netherlands  
Taft Lecture, University of California-Irvine
- 2017** Symposium Speaker, 253<sup>rd</sup> ACS National Meeting, San Francisco, CA  
Baker Symposium, Cornell University  
Bioorganic Chemistry Gordon Conference, Proctor Academy, NH  
Plenary Lecture, XXXVI Biennial Meeting of the Spanish Royal Society of  
Chemistry, Barcelona  
Enzymes, Coenzymes & Metabolic Pathways Gordon Conference, Waterville  
Valley, NH  
Synthetic Biology Gordon Conference, Stoweflake Conference Center, VT  
Keynote Speaker, International Conference on Aminoacyl-tRNA Synthetases,  
Clearwater Beach, FL

- Keynote Speaker, International Conference on Chemical Biology & Physiology,  
Oregon Health & Science University
- 2018** Novartis Symposium (Boston College)  
Sigma Aldrich Lecture, Duke University.  
University of North Carolina, Chapel Hill  
Invited lecturer, UC Berkeley  
ACS Publications Symposium on Bio-Chem-Med (Beijing)  
Frontiers in Biology Lecture, Department of Biochemistry, Stanford  
TSRI Distinguished Lecture, Scripps Research Institute (LaJolla)  
Invited lecturer, UNC  
Frontiers in Biochemistry Lecture, Stanford University  
Student-Invited Lecturer, Scripps LaJolla  
Plenary lecturer, EMBO Workshop: Enzymes, Biocatalysis and Chemical  
Biology: The new frontiers, Pavia, Italy  
Novartis Symposium, Boston College  
EMBL Conference on Labeling & Nanoscopy (Heidelberg)  
Sigma-Aldrich Lecture, Duke  
Plenary lecturer, ACS Publications Symposium on Bio-Chem-Med (Beijing)
- 2019** Chemical Biology Symposium (Ben-Gurion University of the Negev, Israel)  
R. Bryan Miller Symposium (UC Davis)  
Institute of Chemical Biology Lecture (Vanderbilt University)  
Friedman Lecture (CUNY)  
PSCNE Speaker, Cambridge, MA  
Invited Lecturer, Duke University
- 2020** Invited Speaker, Inception Sciences, San Diego, CA  
Invited Lecturer, Johns Hopkins, Baltimore, MD  
Guthikonda Lecturer, Stanford University, Stanford, CA  
Invited Lecturer, University of Wisconsin, Madison (postponed)  
Frontiers in Chemical Research Speaker, Texas A&M (postponed)  
Distinguished Lecture Series, Scripps Research Institute, Jupiter, FL (postponed)  
B&B (RSC) Symposium, Edinburgh, UK (postponed)  
Molecular Biology Institute Lecturer, UCLA (postponed)  
Tetrahedron Prize Symposium Speaker, ACS Meeting, San Francisco, CA  
2020 Streck Awardee in Chemical Biology, University of Nebraska (postponed)  
15<sup>th</sup> Annual Peptide Therapeutics Symposium Speaker, La Jolla, CA  
UCSF-UCB Andrew Braisted Award Lecture, San Francisco, CA (postponed)  
2020 International Chemical Congress of Pacific Basin Societies, Advancing  
Frontiers in Peptide and Protein Science with Nano-to-Macro Molecular Solutions  
Symposium, Honolulu, Hawaii (postponed)  
NSF-DOE Symposium, Frontiers of Chemical Science
- 2021** Invited Lecturer, University of Washington  
Sidney Archer Lecturer, Rensselaer Polytech Institute, NY  
Friedman Lecturer, CUNY  
QBI/PKU Symposium on Chemical Biology, San Francisco, CA

The 18th Annual Advanced Imaging Methods (Virtual) Workshop, Virtual  
Univ. of Minnesota (Build a Cell seminar), Virtual  
Université de Montréal, Virtual  
ACS Hirshmann Award Talk, Virtual  
2020 Guthikonda Lectureship, Stanford Univ., Virtual  
2021 RSC Chemical Biology Symposium, Virtual  
Chem Bio Training Program, University of Illinois at North Carolina, Virtual  
Harvard Medical School, Virtual  
Canadian Peptide Society Virtual Symposium, Virtual  
2021 EWOC Conference, Virtual  
UCLA Seaborg Symposium honoring Carolyn Bertozzi, Los Angeles, CA  
UCSF-UCB Andrew Braisted Award Lecture in 2019, San Francisco, CA  
Pacifichem 2021, Honolulu, Hawaii  
Univ. of Pittsburgh, First Pennsylvania Chemical Biology Symposium, Virtual

**2022**

Peptide Gordon Research Conference, Ventura, CA  
ACS 2022 Graduate Student Symposium, San Diego, CA  
10th anniversary of the CiQUS research center, Spain  
Mertes Lecture Award, Univ. of Kansas, Lawrence, Kansas  
2020 Streck Awardee in Chemical Biology, Univ. of Nebraska, Lincoln, Nebraska  
University of Arizona, Tucson, Arizona  
27th American Peptide Symposium, Whistler, Canada  
Bay Area-Peking Univ Chem Bio Symposium, Berkeley, CA

**2023**

Carleton College, Northfield, CA  
Univ. of Minnesota, Minneapolis, Minnesota  
2021 Molecular Membrane Biology Gordon Research Conference  
Stork Lecture, Columbia University, New York, NY

*Publications*  
**Alanna Schepartz**

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*, 3458-3464.
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 Peptide Cleavage by Carboxypeptidase A and Related Enzymes. 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-metal cations by self-assembling ionophore complexes of Nickel(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*, B. Testa, E. Kyburz, W. Fuhrer, R. Giger, 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. 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. Paoella, C.R. Palmer & A. Schepartz, *Science* **1994**, *264*, 1130-1133.



19. Mapping RNA 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 bZIP Segments in the Control of DNA Affinity and Specificity. S.J. Metallo & A. Schepartz, *Chem. Biol.* **1994**, *1*, 143-151.
21. A Uniquely Modified RNA: Introduction of a Single RNA Cleavage Agent into the M1 Ribozyme. P.L. Richardson, M.L. Gross, R.D. Smith, K.J. Light-Wahl, R.D. Smith & 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. Paoella, 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 Bifunctional Metal Chelates. 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. Paoella & 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. Paoella, Y. Liu & A. Schepartz, *Biochemistry* **1997**, *36*, 10033-10038.
34. Bidirectional Binding of the TATA box binding protein 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. Paoella, & 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. Evidence for Induced DNA bending by the yeast zinc 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, *79*, 164.
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 TATA box binding protein. 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*, 3416-3417.
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*, 4022-4023.
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*, 14336-14347.
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.
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