

KENT KIRSHENBAUM

Associate Professor, Department of Chemistry
New York University
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EDUCATION

Ph.D., Pharmaceutical Chemistry 1999
University of California, San Francisco

B.A., Chemistry 1994
Reed College, Portland, Oregon

PROFESSIONAL EXPERIENCE

Associate Professor 2008-present
Assistant Professor 2002-2008
New York University
Department of Chemistry
appointed to faculty of Sackler Institute of Biomedical Sciences, NYU School of Medicine, 2008

Postdoctoral Fellow 1999-2002
California Institute of Technology
Division of Chemistry and Chemical Engineering (with Prof. David Tirrell)

Visiting Scientist 1995-1999
Chiron Corporation, Emeryville, CA
Bioorganic Chemistry Group (with Dr. Ronald Zuckermann)

Graduate Research Assistant 1994-1999
University of California, San Francisco
Department of Pharmaceutical Chemistry (with Prof. Ken Dill)

ACADEMIC HONORS AND AWARDS

- National Science Foundation CAREER Award 2007-2012
- Alzheimer's Association New Investigator 2005-2007
- James D. Watson Investigator Award (NYSTAR) 2004-2006
- N.R.S.A. Postdoctoral Fellowship (NIH) 2000-2002
- Frank Goyan Award in Physical Chemistry (UCSF) 1998
- Training Grant in Pharmaceutical Sciences (UCSF) 1995-1998
- University of California Regents Fellowship (UCSF) 1994-1995

COURSES TAUGHT

- **Bioorganic Chemistry G25.2884**
Spring 2003, Spring 2004, Spring 2005, Spring 2007, Spring 2008 (with P. Arora)
- **Honors Organic Chemistry Lab V25.0352**
Spring 2003, Spring 2004, Spring 2005, Spring 2007, Spring 2008 (with P. Arora)
- **Molecular Biochemistry G25.1883**
Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007, Fall 2008
- Additional lectures given in **The Contemporary Chemist**, 2003-2006
- Tutorial course instructor, **Molecular Gastronomy**, Gallatin School, Fall 2007

RESEARCH SUPERVISION

- Dr. Elizabeth Anderson, post-doc
- Dr. Galia Maayan, post-doc (co-advised with Prof. Mike Ward)
- Dr. Hangjun Jang, M.D., Ph.D. student, Chemistry (Ph.D. awarded 2007)
- Barney Yoo, Ph.D. student, Chemistry (Ph.D. awarded 2008)
- Sung Bin Shin, Ph.D. student, Chemistry (M.S. in Biology awarded 2004, Ph.D. awarded 2008)
- Yeliz Utku, Ph.D. student, Chemistry
- Justin Holub, Ph.D. student, Chemistry
- Peter Jordan, Ph.D. student, Chemistry (transferred to Yale University, Dept. of Chemistry)
- Nancy Hom, Ph.D. student, Chemistry
- Bishwajit Paul, Ph.D. student, Chemistry
- Mia Huang, Ph.D. student, Chemistry (M.S. in Biology awarded 2008)
- Keren Imberg, M.S. student, Biology (M.S. degree awarded 2007)
- Li-Kai Liu, M.S. student, Biology
- Aaron Fafarman, research assistant
- Abhinav Rohatgi, undergraduate student, Chemistry
- Neel Shah, undergraduate student, Chemistry
- Katy Wong, undergraduate student, Chemistry
- Shareen Farooqi, undergraduate student, Chemistry
- Antonio Ramos, undergraduate student, Chemistry
- Tracey Spencer, undergraduate student, Chemistry
- Charles Kaczarek, undergraduate student, Chemistry
- Omayma Kishk, undergraduate student, REU program, Univ. of Mississippi, Oxford
- Anatte Kormendi, undergraduate student, Bennington College
- Ani Kicheva, undergraduate student, Bennington College
- Ryan Johnson, undergraduate student, Bennington College
- Hoi Wai Chau, ACS Project Seed high school student
- Brian Groudan, high school student

COMMITTEE AND PROFESSIONAL SERVICE

- Faculty of Arts & Science Committee on Undergraduate Curriculum, 2006-2009
- Faculty of Arts & Science Committee on Women in Natural Sciences, 2006
- Faculty of Arts & Science Committee on Teaching, 2005
- Chemistry Department Graduate Student Admissions Committee, 2002-2009
- Chemistry Department Graduate Student Recruitment Committee, 2002-2006
- Chemistry Department Colloquium Committee, 2002-2007
- Chemistry Department Faculty Hiring Committees, 2004-2005, 2008-2009
- Chemistry Department Tenure Committee, 2008
- Chemistry Department Graduate Student Awards Committee, ongoing
- Dissertation Committee, Dept. of Chemistry, Columbia University, 2006
- Dissertation Committee, Dept. of Chemistry, SUNY Stony Brook, 2008
- N.I.H. grant reviewer, *ad hoc* member SBCB study section, June, 2007
- N.S.F. grant review panel member, Biomaterials Program, February, 2008
- Alzheimer's Association, grant reviewer, 2006-2007
- New York Academy of Sciences, Chemical Biology Discussion Group, session co-organizer for "Foldamers and their Uses in Chemical Biology", April, 2007
- Mid-Atlantic Regional Meeting of the American Chemical Society, organizing chair, session on Biomimetic Catalysis, Queens, NY, May 2008
- National Chemistry Week science outreach, NY Hall of Science, Queens, NY, 2006 and 2008
- Experimental Cuisine Collective, founding member, 2006-current

JOURNAL REFEREE ACTIVITY

Advanced Functional Materials; Angewandte Chemie; Biochemistry; Bioconjugate Chemistry; Bioinformatics; Biomacromolecules; Biomaterials; Bioorganic & Medicinal Chemistry; Biopolymers; ChemBioChem; Chemical Communications; Chemistry & Biology; Chemistry – A European Journal; Chemistry of Materials; European Journal of Organic Chemistry; Journal of Biological Inorganic Chemistry; Journal of Combinatorial Chemistry; Journal of Controlled Release; Journal of Molecular Biology; Journal of the American Chemical Society; Journal of Organic Chemistry; Journal of Physical Chemistry; Macromolecular Rapid Communications; Molecular Pharmaceutics; Nano Letters; Nature Nanotechnology; Nature Protocols; Organic and Biomolecular Chemistry; Organic Letters; Proceedings of the National Academy of Sciences, USA; QSAR & Combinatorial Science; Small; Synlett; Tetrahedron Letters

GRANT SUPPORT

Current:

- P.I., National Science Foundation CAREER Award (#0645361) "CAREER: Elaborate Biomimetic Architectures"; \$575,000; 2007-2012
- Co-Investigator, N.I.H. RO1 #AG031221 "Targeting the ApoE/A-beta Interaction as a Novel Alzheimer's Disease Therapy"; P.I.: Dr. M. Sadowski, NYU School of Medicine; 2008-2012
- P.I., Department of Energy Facilities Use Award, Molecular Foundry, Lawrence Berkeley Laboratories "Characterization of Biomolecular Nanostructured Complexes of Peptoid Derivatives and RNA Oligonucleotides"; 2006-2007, renewed 2008-2009

Completed:

- P.I.: NYSTAR James D. Watson Investigator Award “Peptidomimetics for Medical Imaging Applications”; \$200,000; 2004-2006
- P.I., Alzheimer’s Association New Investigator Award “Peptide Mimetic Imaging Agents for Diagnosis of Alzheimer’s Disease”; \$100,000; 2005-2007

Grant Support for Outreach Programs:

- Senior Participant, NSF Research Experiences for Undergraduates “NYU-CCNY REU for the Science and Engineering of Soft Materials and Interfaces (SESMI)” P.I.: Prof. Ward, NYU Chemistry; co-P.I. Prof. Couzis, CCNY; \$306,000; 2007-2010
- Co-P.I., NYU Research Challenge Fund, “Experimental Gastronomy: The Kitchen as an Intersection of Research in the Science and Humanities”; Co-P.I.: Prof. Bentley, NYU Dept. of Food Studies, Nutrition, and Public Health; \$14,286; 2007-2009
- Co-P.I., NYU Humanities Council, Working Research Group Award, “Experimental Cuisine: The Kitchen as an Intersection of Science and the Humanities”; Co-P.I.: Prof. Bentley, NYU Dept. of Food Studies, Nutrition, and Public Health; \$10,000; 2007-2009

THESES

B.A., Reed College, *Molecular Dynamics Simulations of Amyloid β -Peptide*, 1994

Ph.D., U.C.S.F., *Design and Characterization of Biomimetic Polymers*, 1999

PUBLICATIONS

Publications at NYU:

- Maayan, G.; Ward, M.; Kirshenbaum, K. “Metallopeptoids” *Chem. Commun.*, **2009**, in press.
- Yoo, B.; Kirshenbaum, K. “Peptoid Architectures: Elaboration, Actuation, and Application” *Curr. Opin. Chem. Biol.*, **2008**, in press.
- Shah, N. H.; Butterfoss, G. L.; Nguyen, K.; Yoo, B.; Bonneau, R.; Rabenstein, D. L.; Kirshenbaum, K. “Oligo(N-aryl glycines): A New Twist on Structured Peptoids” *J. Am. Chem. Soc.*, **2008** 130: 16622-16632.
- Kirshenbaum, K.; Arora, P.S. “Cross-Dressing Proteins by Olefin Metathesis” (News & Views) *Nature Chem. Biol.*, **2008** 9: 527-528.
- Shah, N.H.; Kirshenbaum, K. “Direct Generation of Polymer Films on Copper Surfaces Through Azide-Alkyne Cycloaddition Reactions Between Peptidomimetic Oligomers” *Macromol. Rapid Commun.*, **2008** 29: 1134-1139.
- Shah, N.H.; Kirshenbaum, K. “Photoresponsive Peptoid Oligomers Bearing Azobenzene Side Chains” *Org. Biomol. Chem.*, **2008** 6: 2516-2521.
- Maayan, G.; Yoo, B.; Kirshenbaum, K. “Heterocyclic Amines for the Construction of Peptoid Oligomers Bearing Multi-Dentate Ligands” *Tet. Lett.*, **2008** 49: 335-338.

- Shin, S.-B.Y.; Kirshenbaum, K. “Conformational Rearrangements by Water-Soluble Peptoid Foldamers” *Org. Lett.*, **2007** 9: 5003-5006.
- Holub, J. M.; Garabedian, M. J.; Kirshenbaum, K. “Peptoids on Steroids: Precise Multivalent Estradiol-Peptidomimetic Conjugates Generated via Azide-Alkyne [3+2] Cycloaddition Reactions” *QSAR & Comb. Sci.*, **2007** 26: 1175-1180.
- Shin, S.-B.Y., Yoo, B., Todaro, L., Kirshenbaum, K. “Cyclic Peptoids” *J. Am. Chem. Soc.*, **2007** 129: 3218-3225.
- Holub, J.M., Jang, H., Kirshenbaum, K. “Fit To Be Tied: Conformation-Directed Macrocyclization of Peptoid Foldamers” *Org. Lett.* **2007** 9: 3275-3278.
- Fafarman, A.T., Borbat, P.P., Freed, J.H., Kirshenbaum, K. “Characterizing the Structure and Dynamics of Folded Oligomers: Pulsed ESR Studies of Peptoid Helices” *Chem. Commun.* **2007** 2: 377-379.
- Utku, Y., Dehan, E., Ouerfelli, O., Piano, F., Zuckermann, R.N., Pagano, M., Kirshenbaum, K. “A peptidomimetic siRNA Transfection Reagent for Highly Effective Gene Silencing” *Mol. BioSystems.* **2006** 2: 312-317.
- Spencer, T., Yoo, B., Kirshenbaum, K. “Purification and Modification of Fullerene C₆₀ in the Undergraduate Laboratory” *J. Chem. Ed.* **2006** 83: 1218-1220.
- Anderson, E.A., Isaacman, S., Peabody, D.S., Wang, E.Y., Canary, J.W., Kirshenbaum, K. “Viral Nanoparticles Donning a Paramagnetic Coat: Conjugation of MRI Contrast Agents to the MS2 Capsid” *NanoLetters* **2006** 6: 1160-1164.
- Holub, J.M., Jang, H., Kirshenbaum, K. “Clickity-Click: Highly Functionalized Peptoid Oligomers Generated by Sequential Conjugation Reactions on Solid-Phase Support” *Org. Biomol. Chem.* **2006** 4: 1497-1502.
- Huang, K., Wu, C.W., Sanborn, T.J., Patch, J.A., Kirshenbaum, K., Zuckermann, R.N., Barron, A.E., Radhakrishnan, I. “A Threaded Loop Conformation Adopted by a Family of Peptoid Nonamers” *J. Am. Chem. Soc.* **2006** 128: 1733-1738.
- Yoo, B., Kirshenbaum, K. “Protease-Mediated Ligation of Abiotic Oligomers” *J. Am. Chem. Soc.* **2005** 127: 17132-17133.
- Jang, H., Fafarman, A., Kirshenbaum, K. “Click to Fit: Versatile Polyvalent Display on a Peptidomimetic Scaffold” *Org. Lett.* **2005** 7: 1951-1954.
- Patch, J.A., Kirshenbaum, K., Seurnyck, S.L., Zuckermann, R.N., Barron, A.E. “Versatile Oligo(*N*-substituted) Glycines: The Many Roles of Peptoids in Drug Discovery” invited chapter in *Pseudo-peptides in Drug Development*; Nielsen, P.E., Ed.; Wiley-VCH, Weinheim, Germany, **2004**, 1-31.
- Arora, P.S., Kirshenbaum, K. “Nano-Tailoring: Stitching Alterations on Viral Coats” (Preview) *Chem. Biol.* **2004** 11, 418-420.

Publications Prior to NYU:

- Wu, C.W., Kirshenbaum, K., Sanborn, T.J., Patch, J.A., Huang, K., Dill, K.A., Zuckermann, R.N., Barron, A.E. “Structural and Spectroscopic Studies of Peptoid Oligomers with α -Chiral Aliphatic Side Chains” *J. Am. Chem. Soc.* **2003** *125*, 13525-13530.
- Kwon, I., Kirshenbaum, K., Tirrell, D.A. “Breaking the Degeneracy of the Genetic Code” *J. Am. Chem. Soc.* **2003** *125*, 7512-7513.
- Kirshenbaum, K., Carrico, I.S., Tirrell, D.A. “Biosynthesis of Proteins Incorporating a Versatile Set of Phenylalanine Analogs” *ChemBioChem*, **2002** *3*, 235-237.
- Kirshenbaum, K., Zuckermann, R., Dill, K.A. “Designing Polymers that Mimic Biomolecules” *Curr. Opin. Struct. Biol.* **1999** *9*, 530-535.
- Kirshenbaum, K., Young, M., Highsmith, S. “Predicting Allosteric Switches in Myosins” *Protein Sci.* **1999** *8*, 1806-1815.
- Young, M., Kirshenbaum, K., Dill, K.A., Highsmith S. “Predicting Conformational Switches in Proteins” *Protein Sci.* **1999** *8*, 1752-1764.
- Kirshenbaum, K., Barron, A.E., Goldsmith, R.A., Armand, P., Bradley, E.K., Truong, K.T.V., Dill, K.A., Cohen, F.E., Zuckermann, R.N. “Sequence-Specific Polypeptoids: A Diverse Family of Heteropolymers with Stable Secondary Structure” *Proc. Natl. Acad. Sci. USA* **1998** *95*, 4303-4308.
- Armand, P., Kirshenbaum, K., Goldsmith, R.A., Farr-Jones, S., Barron, A.E., Truong, K.T.V., Dill, K.A., Mierke, D.F., Cohen, F.E., Zuckermann, R.N., Bradley, E.K. “NMR Determination of the Major Solution Conformation of a Peptoid Pentamer with Chiral Side Chains” *Proc. Natl. Acad. Sci. USA* **1998** *95*, 4309-4314.
- Armand, P., Kirshenbaum, K., Falicov, A., Dunbrack, R.L., Dill, K.A., Zuckermann, R.N., Cohen, F.E. “Chiral *N*-Substituted Glycines Can Form Stable Helical Conformations” *Folding & Design* **1997** *2*, 369-375.
- Kirshenbaum, K., Daggett, V. “pH-Dependent Conformations of the Amyloid β (1-28) Peptide Fragment Explored Using Molecular Dynamics” *Biochemistry* **1995** *34*, 7629-7639.
- Kirshenbaum, K., Daggett, V. “Sequence Effects on Conformational Properties of the Amyloid β (1-28) Peptide: Testing a Proposed Mechanism for the $\alpha \rightarrow \beta$ Transition” *Biochemistry* **1995** *34*, 7640-7647.
- Kirshenbaum, K., Papp, S., Highsmith, S. “Cross-linking Myosin Subfragment 1 Cys-697 and Cys-707 Modifies ATP and Actin Binding Site Interactions” *Biophys. J.* **1993** *65*, 1121-1129.

INVITED TALKS

- Chemistry-Biology Interface Seminar Series, Univ. of Delaware, Sep. 2008
- Molecular Foundry, Lawrence Berkeley National Laboratory, CA, Aug. 2008
- IDEO Corporation, Give & Take Lecture Series, New York, NY, Mar. 2008

- Genomics: Genomes to Life and Metabolic Engineering Workshop, session on Nanotechnology and Genomics, U.S. Dept. of Energy, Bethesda, Maryland, Feb. 2008
- International Society for Molecular Recognition, 17th Biennial Meeting “Affinity 2007”, New York, NY, July 2007
- IUPAC and ACS Conference on Macromolecules for a Safe, Sustainable and Healthy World, 2nd Strategic Polymer Symposium, Brooklyn, NY, June 2007
- Dept. of Chemical Engineering Seminar Series, California Institute of Technology, Pasadena, CA, May 2007
- Dept. of Chemistry Lecture Series, The Scripps Research Institute, San Diego, CA, May 2007
- Dept. of Chemistry and Biochemistry, Organic Chemistry Seminar Series, Univ. of California, San Diego, May 2007
- Department of Biochemistry and Molecular Pharmacology Seminar Series, Univ. of Massachusetts Medical School, Worcester, MA, Mar. 2007
- Department of Chemistry Seminar Series, State University of New York, Stony Brook, Feb. 2007
- Draper Undergraduate Society, New York University, Feb. 2007
- Department of Molecular Physiology and Biophysics, Mount Sinai School of Medicine, Discussion Series in Molecular Interactions, New York, Dec. 2006
- Department of Chemistry Seminar Series, City College of New York, Nov. 2006
- National Science Foundation Workshop in Physical Organic Chemistry, Lake Arrowhead, CA, Oct. 2006
- New York Nanoscience Discussion Group, New York, NY, Oct. 2006
- The Molecular Foundry, Lawrence Berkeley Laboratory, Sep. 2006
- Institut de Biologie Moléculaire et Cellulaire, Université Louis Pasteur de Strasbourg, France, Mar. 2006
- Institute of Organic Chemistry, University of Zurich, Switzerland, Mar. 2006
- Northwestern University, Evanston, IL, June 2005
- Department of Chemistry Seminar Series, Reed College, Portland, OR, Nov. 2004
- Northeast Regional Meeting of the American Chemical Society, Rochester, NY, Nov. 2004
- Gordon Research Conference on Biopolymers, Salve Regina Univ., Newport, RI, June 2004
- Department of Chemistry Seminar Series, Long Island University, Brooklyn, NY, Oct. 2003

- Department of Chemical & Biological Sciences Colloquium Series, Polytechnic University, Brooklyn, NY, Sep. 2003
- Rolduc Polymer Meeting, “Crossing Lengthscales and Disciplines”, Rolduc Abbey, Maastricht, The Netherlands, May 2003
- Department of Chemistry Lecture Series, Fordham University, Bronx, NY, Mar. 2003
- Department of Biochemistry and Microbiology Lecture Series, Rutgers University, New Brunswick, NJ, Jan. 2003
- Conference on Aminoacyl-tRNA Synthetases in Biology, Medicine and Evolution, Pacific Grove, CA, Jan. 2002
- Gordon Research Conference on Biodegradable Polymers, Oxford University, U.K., July 2001.
- Biosystems Research Department Seminar, Sandia National Laboratory, Livermore, CA, Dec. 2000
- American Chemical Society Workshop on Chain Growth Polymerization, Sonoma, CA, Mar. 2000
- Gordon Research Conference on Chemistry and Biology of Peptides, Ventura, CA, Feb. 1998

PATENTS

- Wold, B.J., Murphy, J.F., Davis, M.E., Kirshenbaum, K., Tirrell, D.A. "A rapid, quantitative method for the mass spectrometric analysis of nucleic acids for gene expression and genotyping" App. Nos. WO 2002010186, US 2002137057.
- Kirshenbaum, K., Yoo, B. "Enzyme-catalyzed assembly of protein and nucleic acid polymers from oligomers using transfer reactions to generate reactive termini" US application pending.
- Holub, J., Kirshenbaum, K. "Method for Site-Specific Polyvalent Display on Polymers" US application pending.
- Maayan, G., Ward, M., Kirshenbaum, K. "Peptoid Compositions and their Method of Use" US application pending.

PRESS REPORTS

Related to: Shin *et al.* "Cyclic Peptoids" *J. Am. Chem. Soc.*, **2007** 129, 3218

- Editor's Choice highlight in *Science*
Phillip Szuromi, "Peptoid Polygons" *Science* **2007** 315, 1467

Related to: Utku *et al.* "A Peptidomimetic siRNA Transfection Reagent for Highly Effective Gene Silencing" *Mol. BioSystems*. **2006** 2, 312

- Cover Story, *Chemical & Engineering News*
Celia Henry Arnaud "Digging Deep to Understand siRNA Delivery Systems" *C&E News*, Nov. 13, **2006**, 84: 20-21

- *Science Daily* “Researchers Developing Molecular Delivery Vehicles For Genetic Therapies” Dec. 10, **2006**
- Susan Gotensparre “Delivery Technology Could Speed up siRNA Development” DrugResearcher.com, Dec. **2006**
- *Pharmacogenomics* “Progress Made in the Development of Molecular Delivery Vehicles for Genetic Therapies” Jan. **2007**, Vol. 8, No. 1, 11-13
- others including EurekAlert, Bioresearch Online, Innovations Report, PhysOrg.com, Biotechnolog.net, NYU Today, and Medical News Today

Related to: Anderson *et al.* “Viral Nanoparticles Donning a Paramagnetic Coat: Conjugation of MRI Contrast Agents to the MS2 Capsid” *Nano Letters* **2006** 6, 1160.

- Paula Gould “Viral capsid shows MRI contrast potential” *Nano Today*, Aug. **2006**, Vol. 1, p. 13
- United Press International NewsTrack “Potential Shown to Enhance MRI Imaging” June 13, **2006**
- National Cancer Institute Nanotech News, “Coated Virus Nanoparticles Boost MRI Signals” June 26, **2006**
- *Science Daily* “Researchers Decorate Virus Particles, Showing Potential To Enhance MRI Capabilities” June 14, **2006**
- *Nanomedicine* “Decorated viral nanoparticles improve MRI” Vol. 1, No. 2, p. 153, Aug. **2006**
- PhysOrg.com, “Researchers decorate virus particles” June 14, **2006**
- Steve Lewis, “NYU researchers show enhanced MRI potential of decorated virus particles” *NanoBiotech News*, **2006**, Vol. 4, No. 26, p. 3
- *RT-Image*, “Virus Particles Show Potential to Enhance MRI Capabilities” Vol. 19, July 17, **2006**
- EurekAlert, “NYU Researchers Decorate Virus Particles, Showing Potential to Enhance MRI Capabilities” June 13, **2006**
- *Inside Nanotechnology* “Coated Virus Nanoparticles Boost MRI Signals” June 30 **2006**
- Jeff Bell “Small Wonders” *Advance for Imaging and Oncology*, Vol. 16, p. 26-28 Nov. **2006**
- Materials Research Society Research News, “Chemical Decoration of Virus Particles Enhances MRI Imaging” June 14, **2006**
- Foresight Nanotech Institute, Weekly News Digest, “Researchers Decorate Virus Particles” June 14, **2006**
- others including Innovations Report, Medical News Today, NanotechWire.com, Nanotechnology World, NanoWerk News, NYU Today, Radiata, The Independent Sector

Related to: Holub *et al.* “Clickity-Click: Highly Functionalized Peptoid Oligomers Generated by Sequential Conjugation Reactions on Solid-Phase Support” *Org. Biomol. Chem.* **2006**

- Top 10 downloaded articles in *Organic & Biomolecular Chemistry*, 2006
- *Organic & Biomolecular Chemistry* Hot Paper: “Peptide Mimcs Show Promise”
- James Crow “New Tools for Biomedicine Just a Click Away” *Chemistry World* **2006** 3, p. 26

Related to: science outreach with the Experimental Cuisine Collective

- Television appearance, The Food Network, “Food Detectives”, in production
- Television appearance, Discovery Channel, “Primal Connections”, in production
- Television appearance, The Science Channel, “Brink”, Nov. 28, **2008**
- *Chemical & Engineering News*, Lisa Jarvis, “Kitchen Chemistry: Our Love of Food Is Helping Bring Science to the Masses”, July 7, **2008**, p. 26-30
- Science & the City podcast series, New York Academy of Science, July **2008**
- NPR, Science Friday Video, “The Scoop on Stretchy Ice Cream”, July **2008**
- NPR, Science Friday Video, “Making Spirits, Distilled”, June **2008**
- *Time Magazine*, Joel Stein, “10 Ideas that Are Changing the World: Kitchen Chemistry”, Mar. 24, **2008**, p. 48
- *Washington Post*, Andreas Viestad, “Onions that Don’t Bite Back”, Apr. 16, 2008, p. F1
- Leonard Lopate radio show, WNYC, Feb. 6, **2008**
- *New York Times*, J.J. Goode, “Nori Steps away from the Sushi”, Jan. 9, **2008**
- *New York Observer*, Matthew Fishbane, “In the Kitchen with Mounsiour Wizard”, Dec. 10, **2007**, p. C5
- *Art Culinaire*, “The Experimental Cuisine Collective”, Fall **2007**, p. 2-5
- *The Scientist*, Kent Steinriede, “Food, with a Side of Science” Apr. 27, **2007**
- Additional: Consumer Eroski; Real Baking with Rose Levy Beranbaum; StarChefs.com, U.S. News & World Report

General Interest:

- *Time Out New York*, A. Halpern, “New York Simpsons: Hi-Diddly-ho, neighbor-inos!”, July 26, **2007**, p.17