

Curriculum Vitae

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Education and Postdoctoral Training

- 1985 B.S., Chemistry, *University of Science and Technology of China*, Hefei, China
- 1990 Ph.D., Organic Chemistry, *State University of New York*, Stony Brook, NY
(Professor Thomas W. Bell)
- 1990-93 Postdoctoral Fellow, Chemical Biology, *Harvard University*, Cambridge, MA
(Professor Gregory L. Verdine)

Professional Chronology

- 1993-1997 Research Scientist, *Hybridon, Inc.*, Cambridge, MA
- 1997-1998 Senior Scientist, *Variagenics, Inc.*, Cambridge, MA
- 1998-2002 Director/Group Leader, Chemistry, *Variagenics, Inc.*, Cambridge, MA
- 2002-2003 Senior Director, Research, *Variagenics / Nevelo, Inc.*, Cambridge, MA
- 2003-Present Director of Chemistry and Research Project Leader, *Center for Computational and Integrative Biology (CCIB), Massachusetts General Hospital*, Boston, MA

Publications

1. Bell, T. W. and Liu, J. "Hexagonal Lattice Hosts for Urea. A New Series of Designed Heterocyclic Receptors." *J. Am. Chem. Soc.* **1988**, *110*, 3673.
2. Bell, T. W.; Firestone, A.; Liu, J.; Ludwig, R. and Rothenberger, S. D. "The Hexagonal Lattice Approach to Molecular Receptors" *Inclusion Phenomena and Molecular Recognition* Atwood, J. Ed.; Plenum Press: New York, 1990; 49-56.

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5. Liu, J. and Verdine, G. L. "Synthesis of Photoactive DNA: Incorporation of 8-Bromo-2'-Deoxyadenosine into Synthetic Oligonucleotides" *Tetrahedron Lett.* **1992**, *33*, 4265-4268.
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7. Bell, T. W.; Cragg, P. J.; Drew, M. G. B.; Firestone, A.; Kwok, D.-I.; Liu, J.; Ludwig, R. T. and Papoulis A. T. "Synthesis of New Torands and New Uses for Old Torands" *Pure & Appl. Chem.* **1993**, *65*, 361-366.
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10. Liu, J.; Fan, Q. R.; Sodeoka, M.; Lane, W. S. and Verdine, G. L. "DNA Binding by an Amino Acid Residue in the C-Terminal Half of the Rel Homology Region" *Chemistry & Biology* **1994**, *1*, 47-55.
11. Wolfe, J. L. and Goodchild, J. "Effect of Chemical Modifications on Tetraplex Formation of a G₄-Containing Phosphorothioate Oligonucleotide" *J. Am. Chem. Soc.* **1996**, *118*, 6301-6302.
12. Roberts, P. C.; Frank, B. L.; Boldt, S. E.; Walther, D. M.; Wolfe, J. L.; Kilkuskie, R. E.; Szymkowski, D. E.; Greenfield, I. M.; Sullivan, V. and Mills, J. "Identification of an Antisense Oligonucleotide with *in vivo* Activity against Human Papillomavirus. 1. *In vitro* Evaluation of Oligonucleotides" *Antiviral Research* **1997**, *34*, A71.
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22. Wolfe J. L. and Kawate T. "Synthesis and Polymerase Incorporation of 5'-Amino-2',5'-Dideoxy-5'-N-Triphosphate Nucleotides", In *Current Protocols in Nucleic Acid Chemistry* (S. L. Beaucage, D. E. Bergstrom, G. D. Glick and R. A. Jones, eds.) pp.13.3.1-13.3.17. John Wiley and Sons, New York, **2004**.
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Issued Patents

1. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T. and Verdine, G. L. "Method for analyzing polynucleotides". U.S. Patent No. 6440705. Issued: August 23, **2002**.
2. Roberts, P. C.; Frank, B. L.; Szymkowski, D. E.; Mills, J. S.; Goodchild, J.; Wolfe, J. L.; Kilkuskie, R. E.; Greenfield, I. M. and Sullivan, V. "HPV-specific oligonucleotides". U. S. Patent 6458940. Issued: October 1, **2002**.
3. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T. and Verdine, G. L. "Method for analyzing polynucleotides". U.S. Patent No. 6458945. Issued: October 1, **2002**.
4. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T.; Verdine, G. L. and Olson, J. "Method for identifying polymorphisms". U.S. Patent No. 6500650. Issued: December 31, **2002**.
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6. Stanton, Jr., V. P.; Wolfe, J. L. and Verdine, G. L. "Method for analyzing polynucleotides". U. S. Patent No. 6566059. Issued: May 20, **2003**.
7. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T.; Verdine, G. L. and Olson, J. "Method for identifying polymorphisms". U. S. Patent No. 6582923. Issued: June 24, **2003**.
8. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T.; Allerson, C. and Verdine, G. L. "Base-modified nucleotides and cleavage of polynucleotides incorporating them". U. S. Patent No. 6610492. Issued: August 26, **2003**.
9. Stanton, Jr., V. P.; Olson, J.; Wolfe, J. L. and Zillmann, M. "Genotyping by mass spectrometric analysis of allelic fragments". U. S. Patent No. 6777188. Issued: August 17, **2004**.
10. Stanton, Jr., V. P.; Wolfe, J. L.; Kawate, T.; Verdine, G. L.; Olson, J. and Dykes, C. W. "Method for identifying polymorphisms". U. S. Patent No. 6825009. Issued: November 30, **2004**.
11. Wolfe, J. L.; Kawate, T.; Allerson, C. and Stanton, Jr., V. P. "Fluorescence-based genotyping". U. S. Patent No. 6855500. Issued: February 15, **2005**.
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