

Lori M. Conlan, PhD

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Wadsworth Center  
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**Summary of qualifications**

Innovative and result oriented research scientist with expertise in protein biochemistry

- Strong experience in enzyme kinetics using innovative single turnover assays and new technologies
- Ability to successfully meet scientific challenges and execute diverse scientific projects both individually and within teams
- Diligent to deadlines of multiple tasks to ensure completion of project goals
- Effective in communication of scientific content to a variety of audiences
- Experience with laboratory budgets and personnel management

**Education**

2002 PhD Biochemistry and Biophysics, Texas A&M University  
1996 BS Biochemistry, Michigan State University

**Research Experience**

2002-present Research Affiliate  
Wadsworth Center, New York State Department of Health (NYSDOH), Albany, NY  
Explored group II intron mobility pathways and mechanisms to understand how DNA can insert into non-ideal locations.

1996- 2002 Graduate Research Assistant  
Department of Biochemistry, Texas A&M University  
Examined how metal ions contribute to DNA binding and cleavage to understand fundamental restriction enzyme mechanisms.

1994- 1996 Undergraduate Research  
Department of Biochemistry, Michigan State University  
Studied thioltransferase kinetics to understand how the cell responds to oxidative stress.

**Skills**

Technical skills:

- Biophysical methods:** stopped flow fluorescence, various NMR methods, circular dichroism, isothermal titration calorimetry
- Molecular biology:** DNA cloning, RNA isolation, isolation of genomic DNA, Pulsed field gel electrophoresis, Southern Blots, high-throughput mutation detection
- Protein biochemistry:** protein expression and purification, selective labeling of proteins for NMR, proteolysis assays, kinetic assays (Michaelis–Menten and single turnover), protein-DNA binding assays, radioactive and non-radioactive DNA binding and cleavage assays, Western blots

Team skills:

- Managed 4 technicians, 3 graduate students, 9 undergraduates and many lab rotations students
- Participated in hiring new lab personnel
- Promoted lab social interactions

Managerial Skills:

- Responsible for ordering reagents, equipment and new instrumentation for entire lab.
- Developed an ordering system
- Negotiated and solicited bids from vendors to ensure cost savings

- Participated in lab budget management
- Repaired and maintained lab equipment
- Maintained chemical and radiation supplies and safety assurances

### Service

2003-2004	President, Postdoctoral Association-Wadsworth Center, NYSDOH
2002	Chair, Steering committee, Postdoctoral Association, Wadsworth Center, NYSDOH
2000	Vice President, Biochemistry Graduate Association, Texas A&M University

**Comment [c1]:** This section can be expanded to include transferrable skills if needed.

### Grants

2004-present	NIH- Ruth L. Kirschstein National Research Service Award Postdoctoral Fellowship
1996-1998	NIH- Chemistry/Biology Interface Training Grant (1996-1998)

### Honors

2001	The Ethel Ashworth-Tsutsui Memorial Award for Mentoring, Texas A&M University
1998	Young Investigator's Award, FASEB Conference on Nucleic Acids: Enzymes and Disease
1992	Michigan State University Distinguished Freshman

### Publications

1. **Conlan, L.H.**, Stanger, M.J., Ichiyanagi, K., Belfort, M. (2005) "Localization, Mobilization, and Fidelity of Retrotransposed Group II Introns in rRNA genes," *Nucleic Acids Res.* (16):5262-5270
2. Blocker, F.J., Mohr, G., **Conlan, L.H.**, Qi, L., Belfort, M., Lambowitz, A.M. (2005) "Domain structure and three-dimensional model of a group II intron-encoded reverse transcriptase," *RNA* (11):14-28
3. **Conlan, L.H.** and Dupureur, C.M. (2002) "Multiple metal ions drive DNA association by *PvuII* endonuclease," *Biochemistry* (50): 14848-14855.
4. **Conlan, L.H.** and Dupureur, C.M. (2002) "Dissecting the Metal Ion Dependence of DNA Binding by *PvuII* Endonuclease," *Biochemistry* (41): 1335-1342.
5. Dupureur, C.M. and **Conlan, L.H.**, (2000) "A Catalytically Deficient Active Site Variant of *PvuII* Endonuclease Binds Mg(II) Ions," *Biochemistry* (39): 10921-10927.
6. Jose, T.J., **Conlan, L.H.** and Dupureur, C.M. (1999) "Quantitative Evaluation of Metal Ion Binding to *PvuII* Restriction Endonuclease," *JBIC* (4): 814-823.
7. **Conlan, L.H.**, Jose, T.J., Thornton, K.C. and Dupureur, C.M. (1999) "Modulating Restriction Endonuclease Activities and Specificities Using Neutral Detergents," *Biotechniques* 27(5): 955-960.
8. Dupureur, C.M. and **Hallman, L.M.\*** (1999) "Effects of Divalent Metal Ions on the Activity and Conformation of Native and 3-Fluorotyrosine *PvuII* Endonuclease," *European J. of Biochem.* 261(1): 261.

\*Hallman name change to Conlan