

# Curriculum Vitae

## Benjamin R. Linger

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### Education

- Teaching Certificate**, 2008, Education – Preparing Future Faculty Certificate Program, University of Cincinnati, Teaching Mentor: Dr. Jeanne Buccigross
- PhD**, 2005, Biochemistry – Concentration in Structural Biology, Purdue University, Dissertation director: Dr. Barbara L. Golden
- BS**, 1999, Chemistry – Concentration in Biochemistry and Molecular Biology, Mount Vernon Nazarene University
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### Teaching Experience

Institution & Position	Principal Duties
<b>Indiana Wesleyan University</b> <b>Associate Professor</b> (2014 – present) <b>Assistant Professor</b> (2010-2014) <b>Assessment Fellow – DNS</b> (2014-2024)	Taught and organized biological chemistry and general chemistry courses including corresponding lab sections.
<b>University of Cincinnati</b> <b>Primary Instructor</b> (2006-2009) Howard Hughes Excellence in Science Education and Learning Program (ExSEL)	Designed week long course in Molecular Genetics including lecturing and laboratory preparation.
<b>College of Mount Saint Joseph</b> <b>Preparing Future Faculty Fellow</b> (2008) Forty hour mentoring experience working beside faculty mentor during a semester long course in biochemistry	Designed and delivered classroom instruction including a problem based learning project, developed exam questions and observed administrative duties.
<b>Princeton Review</b> <b>General Chemistry Teacher</b> (2007)	Primary lecturer for general chemistry with corresponding office hours.
<b>Purdue University</b> <b>Teaching Assistant</b> (2002, 2004)	Provided supplemental lectures, tutoring and grading.
<b>Mount Vernon Nazarene University</b> <b>Laboratory Teaching Assistant</b> (1998-1999)	Prepared laboratory reagents, mentored students in lab, and graded lab reports.
<b>Teaching Assistant</b> (1996-1998)	Provided supplemental lectures and tutoring.

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## Research Experience

Institution & Position	Research Topic
<b>Indiana Wesleyan University</b> <b>Principle Investigator</b> (2010-present)	Examined <i>Tetrahymena</i> telomere proteins. Developed molecular tools for use in <i>Tetrahymena</i> . Mentored undergraduate researchers.
<b>University of Cincinnati</b> <b>Postdoctoral Fellow</b> (2005-2010) Mentor: Carolyn M. Price	Identified and characterized protein components of the <i>Tetrahymena</i> telomere. Mentored undergraduate researchers.
<b>Purdue University</b> <b>Graduate Research Assistant</b> (1999-2005) Mentor: Barbara L. Golden	Characterized the initiation complex that promotes genome packaging during assembly of the Sindbis virus nucleocapsid core.
<b>Lab Technician</b> (1999) Mentor: Victor W. Rodwell	Purified recombinant mammalian HMG-coA Reductase.
<b>University of Kentucky</b> <b>Undergraduate Research Assistant</b> (1998) Mentor: Robert C. Haddon	Synthesized organic compounds for incorporation into organic light emitting diodes.

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## Publications

- Cranert, S., Heyse, S., **Linger, B.R.**, Lescasse, R., and Price, C.M. (2014) *Tetrahymena* Pot2 is a developmentally regulated paralog of Pot1 that localizes to chromosome breakage sites but not to telomeres. *Eukaryot Cell* **13**(12): 1519-1529.
- Premkumar, V., Cranert, S., **Linger, B.R.**, Morin, G.B., Minium, S. and Price, C.M. (2014) The 3' overhangs of *Tetrahymena thermophila* telomeres are packaged by four proteins, Pot1a, Tpt1, Pat1, and Pat2. *Eukaryot Cell* **13**(2): 240-245.
- Linger, B.R.**, Morin, G.B., and Price, C.M. (2011) The Pot1a-associated proteins Tpt1 and Pat1 coordinate telomere protection and length regulation in *Tetrahymena*. *Mol Biol Cell* **22**(21): 4161-4170.
- Linger, B.R.** and Price C.M. (2009) Conservation of telomere protein complexes: shuffling through evolution. *Crit Rev Biochem Mol Biol* **44**(6):434-446.
- Warrier, R., **Linger, B.R.**, Golden, B.L., and Kuhn, R.J. (2008). Role of Sindbis virus capsid protein Region II in nucleocapsid core assembly and encapsidation of genomic RNA. *J Virology* **82**(9): 4461-4470.
- Jacob, N. K., Lescasse, R., **Linger, B.R.**, and Price, C. M. (2007). *Tetrahymena* POT1a regulates telomere length and prevents activation of cell cycle checkpoint. *Mol Cell Biology* **27**:1592-1601.
- Linger, B.R.**, Kunovska, L., Kuhn, R.J., and Golden, B.L. (2004). Sindbis virus nucleocapsid assembly: RNA folding promotes capsid protein dimerization. *RNA* **10**:128-138.
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## Public Presentations

- Van Farowe, A., Marcum, L., Fitzgerald, M., and Linger, B.R. (2024). Stability comparison between thermophilic and mesophilic proteins. (Poster) Western Michigan Regional Undergraduate Science Research Conference at the Van Andel Institute.
- MarBrown, N.E., Rowland-Fisher, E.P., and Linger, B.R. (2012). Intracellular localization of telomere protein fragments in *Tetrahymena thermophila*. (Poster) 2012 Midwest Protozoology Society Meeting. Bradley University, Peoria, IL.
- Linger, B.R., Manieri, W., and Price, C.M. (2009). Division of Labor among Telomere Proteins: Different Functional Roles for Overhang Binding Proteins in *Tetrahymena thermophila*. FASEB Summer Research Conferences. Saxons River, Vermont.
- Linger, B.R. (2008). The hitchhiker's guide to the telomere: one MVNU grad's journey to the end of the chromosome. Invited Speaker, Mount Vernon Nazarene University, Mount Vernon, Ohio.
- Linger, B.R. (2007). Conclusions about the Debate: Creation vs. Evolution. Invited Speaker, Montana Avenue Church of the Nazarene, Cincinnati, Ohio.
- Linger, B.R. (2007). What comes next? Career opportunities in the field of biological sciences. Invited Speaker, Maplewood High School, Cortland, Ohio.
- Linger, B.R. (2007). A perspective on biochemistry from the other side. Invited Speaker, Tri-beta Biology Honor Society, University of Dayton, Dayton, Ohio.
- Linger, B.R. and Price, C.M. (2007). Isolation of *Tetrahymena* Telomeric Protein Complex. 39th Annual Midwest Protozoologists Conference. St. Louis, Missouri.
- Linger, B.R. (2007). Passages with a Promise: How science has confirmed what so many accepted by faith. Invited Speaker, Montana Avenue Church of the Nazarene, Cincinnati, Ohio.
- Linger, B.R. (2006). Career opportunities in the advanced biological sciences. Invited Speaker, Maplewood High School, Cortland, Ohio.
- Linger, B.R. (2005) Greetings MVNU, biochemistry from the other side. Invited Speaker, Mount Vernon Nazarene University, Mount Vernon, Ohio.
- Linger, B.R., Kunovska, L., Kuhn, R.J., and Golden, B.L. (2004). Characterization of the Initiation Complex that Promotes Genome Packaging during Sindbis Virus Nucleocapsid Assembly. A.K. Balls Award Seminar, Biochemistry Department, Purdue University, Indiana.
- Linger, B.R., Kunovska, L., Kuhn, R.J., and Golden, B.L. (2003). Sindbis Virus Nucleocapsid Assembly: RNA Folding Promotes Capsid Protein Dimerization. 2003 RNA Rustbelt Meeting, Mount Sterling, Ohio.
- Linger, B.R., Kuhn, R.J., and Golden, B.L. (2002). Examination of the Initiation Complex for Nucleocapsid Assembly in Sindbis Virus. Eighth Annual Purdue University Biophysics Symposium, West Lafayette, Indiana.
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## Honors, Awards, Fellowships

Director Hodson Research Institute, 2023-present

CURE Development Award – NSF Grant 2020

Hodson Science Student Research Fund, 2011-2015, 2017-2018, 2020-2024

Lilly Scholarship Fund, 2011-2017

Learning Academy Fellow, 2014

Cancer Center Training Grant (NIH postdoctoral fellowship), 2006-2009

A.K. Balls Award for Distinguished Research, Purdue University, 2004

1<sup>st</sup> Place, Sigma Xi Graduate Student Poster Competition, Purdue University, 2004

Biophysics Training Grant (NIH predoctoral fellowship), 2002-2004

Dharmacon Research Presentation Award, RNA Rustbelt Conference, 2002

Biochemistry and Molecular Biology Training Grant (NIH predoctoral fellowship), 2000-2001

Valedictorian, Mount Vernon Nazarene University, 1999

*summa cum laude*, Mount Vernon Nazarene University, 1999

National Collegiate Natural Sciences Award, 1999

Alpha Chi National College Honor Scholarship Society, 1997

The American Chemical Society Polymer Education Committee Award for Outstanding Performance in Organic Chemistry, 1997

Freshman Chemistry Achievement Award, 1996

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