

# Margaret Fairman Williams

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## EDUCATION

- BA Alfred University, Alfred, NY  
Biology/Psychology, *cum laude*, 2001  
Advisor: Dr. Alan Goldstein
- PhD Case Western Reserve University, Cleveland, OH  
Biochemistry, 2009  
Advisor: Dr. Eckhard Jankowsky
- Post-doctoral Brandeis University, Waltham, MA  
Biochemistry  
Advisor: Dr. Jeff Gelles

## PUBLICATIONS

**Fairman ME**, Maroney PA, Wang W, Bowers HA, Gollnick P, Nilsen TW, Jankowsky E. Protein Displacement by DExH/D "RNA Helicases" Without Duplex Unwinding. *Science* **304**, 730-4 (2004).

Jankowsky E, **Fairman ME**, Yang Q. RNA helicases: versatile ATP-driven nanomotors. *J. Nanosci. Nanotechnol.* **5**, 1983-1989 (2005).

Bowers HA, Maroney PA, **Fairman ME**, Kastner B, Lührmann R, Nilsen TW, Jankowsky E. Discriminatory RNP remodeling by the DEAD-box protein DED1. *RNA* **12**, 903-12 (2006).

Yang Q, **Fairman ME**, Jankowsky E. DEAD-box-protein-assisted RNA structure conversion towards and against thermodynamic equilibrium values. *J. Mol. Biol.* **368**, 1087-100 (2007).

Jankowsky E, **Fairman ME**. RNA helicases - one fold for many functions. *Curr. Opin. Struct. Biol.* **17**, 316-24 (2007).

Jennings TA, Chen Y, Sikora D, Harrison MK, Sikora B, Huang L, Jankowsky E, **Fairman ME**, Cameron CE, Raney KD. RNA Unwinding Activity of the Hepatitis C Virus NS3 Helicase Is Modulated by the NS5B Polymerase. *Biochemistry* **47**, 1126-1135 (2008).

Jankowsky E, **Fairman ME**. Duplex unwinding and RNP remodeling with RNA helicases. *Methods Mol Biol.* **488**, 343-55 (2008).

## **AWARDS**

2002-2005: NIH Cell and Molecular Biology Training Grant (CWRU)

2002: Honorable Mention for Talk, Rustbelt RNA Meeting, Mt. Sterling, Ohio

2005: Poster Award, Cell and Molecular Biology Symposium, CWRU

## **COMMITTEES AND EXTERNAL ACTIVITIES**

2002, 2004: Project Judge, Western Reserve District Science Day

2003-2004: CMB Training Grant Symposium Committee

2004-2006: Chairperson, CWRU Department of Biochemistry Student Seminar Series

2005, 2006: Biomedical Graduate Student Symposium Committee