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## BIOGRAPHICAL SKETCH

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NAME <b>Eckhard Jankowsky</b>		POSITION TITLE <b>Professor</b> Biochemistry & Physics	
eRA COMMONS USER NAME EJANKOWSKY			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Dresden Inst. Technology, Dresden, Germany	M.S.	1988-1993	Chemistry
Dresden Inst. Technology, Dresden, Germany	Ph.D.	1993-1996	Chemistry / Biochemistry
Columbia University, New York, NY	Post-doc	1997-2000	Biochemistry
Stanford University, Stanford, CA	Visiting Scholar	2000-2001	Physics / Biophysics

### Positions and Honors

#### Positions and Employment

- 1992 - 1993 Undergraduate Researcher,  
Institute of Wood and Plant Chemistry, Tharandt, Germany
- 1993 - 1996 Graduate Research Assistant,  
Department of Biochemistry, Dresden University of Technology, Dresden, Germany
- 1997 - 2000 Postdoctoral Research Fellow,  
Department of Biochemistry and Mol. Biophysics, Columbia University, New York, NY
- 2000 - 2001 Visiting Scholar,  
Department of Physics, Stanford University, Stanford, CA
- 2000 - 2009 Assistant Professor / Associate Professor (2007)  
Department of Biochemistry, School of Medicine,  
Case Western Reserve University, Cleveland, OH
- 2010 - Associate Professor / **Professor** (2012)  
**Center for RNA Molecular Biology, School of Medicine,  
Case Western Reserve University, Cleveland, OH.**  
Secondary Appointments: Departments of Biochemistry and Physics

#### Honors and Awards

- 1996 Dissertation with *Summa cum laude*
- 1997 Curt Engelhorn Postdoctoral Fellowship (awarded by the German Cancer Research Center)
- 2003 Damon Runyon Scholar Award (*Lallage Feazel Wall Scholar*)
- 2007 Burroughs Wellcome Investigator Award  
*Investigator in the Pathogenesis of Infectious Diseases*

## 10 selected publications from last 10 years (out of 58)

Guenther UP, Yandek LE, Niland CN, Campbell F, Anderson D, Anderson VE, Harris ME & Jankowsky E: "Hidden specificity in an apparently non-specific RNA-binding protein." *Nature*, **502** 385 - 388 (2013)

Jia H, Yang X, Anderson JT & Jankowsky E: "RNA unwinding by the Trf4/Air2/Mtr4 Polyadenylation (TRAMP) complex." *Proc. Natl. Acad. Sci. USA* **109**, 7292-7297 (2012)

Hilliker A, Gao Z, Jankowsky E & Parker R. "The DEAD-box protein Ded1 modulates translation by formation and resolution of an eIF4F-mRNA complex." *Mol. Cell* **43**, 962-972 (2011)

Jia H, Wang X, Liu F, Guenther UP, Srinivasan S, Anderson JT & Jankowsky E: "The RNA helicase Mtr4p modulates polyadenylation in the TRAMP complex." *Cell* **145**, 890-901 (2011)

Liu F, Putnam A & Jankowsky E: "ATP hydrolysis is required for DEAD-box protein recycling but not for duplex unwinding" *Proc. Natl. Acad. Sci. U.S.A.* **105**, 20209-20214 (2008)

Yu Y, Maroney PA, Denker J, Zhang XHF, Dybkov O, Lührmann R, Jankowsky E, Chasin L & Nilsen TW: "Dynamic Regulation of Alternative Splicing: Selection of Silencers that Strongly Modulate 5' Splice Site Choice by Affecting Splice Site Competition." *Cell* **135**, 1224-1236 (2008)

Yang Q, Del Campo M, Lambowitz AM & Jankowsky E: "DEAD-box proteins unwind duplexes by local strand separation" *Mol. Cell* **28**, 253-264 (2007)

Yang Q & Jankowsky E: "The DEAD-box protein DED1 unwinds RNA duplexes by a mode distinct from translocating helicases." *Nature Struct. Mol. Biol.* **13**, 4181-4188 (2006)

Bordeleau ME, Matthews J, Wojnar JM, Lindqvist L, Novac O, Jankowsky E, Sonenberg N, Northcote P, Teesdale-Spittle P & Pelletier J: "Stimulation of mammalian translation initiation factor eIF4A activity by a small molecule inhibitor of eukaryotic translation." *Proc. Natl. Acad. Sci. U.S.A.* **102**, 10460-10465 (2005)

Fairman ME, Maroney P, Wang W, Bowers H, Gollnick P, Nilsen, TW & Jankowsky E: "Protein displacement by DExH/D "RNA helicases" without duplex unwinding." *Science* **304**, 730-734 (2004)

## Books edited:

Jankowsky E (ed.) "RNA helicases", *RSC Biomolecular Series 19*, Royal Society of Chemistry, London (2010) ISBN 978-1-84755-914-2

Jankowsky E (ed.) "RNA helicases: analysis of molecular mechanisms and cellular functions." *Methods in Enzymology* **512** (2012)