

**BIOGRAPHICAL SKETCH**

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NAME David Kadosh, Ph.D.		POSITION TITLE	
eRA COMMONS USER NAME kadosh		Assistant Professor	
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
Cornell University, Ithaca, NY	B.A.	1991	Biological Sciences
Harvard University, Cambridge, MA	Ph.D.	1998	Biological Chemistry & Molecular Pharmacology
University of California, San Francisco, CA	Postdoctoral Fellow	1998-2003	Microbiology & Immunology

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

**A. Positions and Honors****RESEARCH AND PROFESSIONAL EXPERIENCE**

- 1985, 1986, 1988 (summers) Research Assistant with Prof. Howard A. Bern, Department of Zoology, University of California, Berkeley
- 1989-1991 Undergraduate Honors Researcher with Prof. Jeffrey W. Roberts, Department of Biochemistry, Molecular and Cellular Biology, Cornell University
- 1991-1992 Research Associate, COR Therapeutics, Inc., South San Francisco, CA
- 1992-1998 Graduate student with Prof. Kevin Struhl, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School
- 1996 Teaching Fellow, Division of Experimental Medicine, Brigham and Women's Hospital, Harvard Medical School
- 1998-2003 Postdoctoral Fellow with Prof. Alexander D. Johnson, Department of Microbiology and Immunology, University of California, San Francisco (medical leave of absence, 2001-2002)
- 2003-2005 Postgraduate Researcher with Prof. Alexander D. Johnson, Department of Microbiology and Immunology, University of California, San Francisco
- 2006-present Assistant Professor, Department of Microbiology & Immunology, University of Texas Health Science Center at San Antonio (primary appointment)
- 2006-present Assistant Professor, Department of Medicine, Division of Infectious Diseases, University of Texas Health Science Center at San Antonio

## HONORS

Golden Key National Honor Society (1989-1991)  
Howard Hughes Medical Institute Undergraduate Research Scholar (1990-1991)  
B.A., with Distinction in All Subjects and *magna cum laude* (1991)  
National Science Foundation Predoctoral Fellow (1992-1995)  
Albert J. Ryan Fellow (1995-1998)  
Damon Runyan Cancer Research Foundation Postdoctoral Fellow (1998-2001)  
UCSF NIH Biochemistry Training Grant (2002-2003)  
UTHSCSA Executive Research Committee Fund New Investigator Award (2006-2007)  
Burroughs Wellcome Fund Investigators in the Pathogenesis of Infectious Diseases Award Institutional nominee (2007, 2008)  
Beckman Young Investigator Award Institutional nominee (2008)  
Burroughs Wellcome Fund Junior Faculty Travel Grant (2008)  
*Proceedings of the National Academy of Sciences USA* Recruited Author (2009)  
Finalist, Burroughs Wellcome Fund Investigators in the Pathogenesis of Infectious Disease Award (2011)

## B. Selected peer-reviewed publications (in chronological order)

1. DeRubertis, F., **Kadosh, D.**, Henchoz, S., Pauli, D., Reuter, G., Struhl, K. and Spierer, P. (1996). The histone deacetylase Rpd3 counteracts genomic silencing in *Drosophila* and yeast. *Nature* 384: 589-591.
2. **Kadosh, D.** and Struhl K. (1997). Repression by Ume6 involves recruitment of a complex containing Sin3 corepressor and Rpd3 histone deacetylase to target promoters. *Cell* 89: 365-371.
3. **Kadosh, D.** and Struhl K. (1998). Histone deacetylase activity of Rpd3 is important for transcriptional repression *in vivo*. *Genes Dev.* 12: 797-805.
4. **Kadosh, D.** and Struhl K. (1998). Targeted recruitment of the Sin3-Rpd3 histone deacetylase complex generates a highly localized domain of repressed chromatin *in vivo*. *Mol. Cell. Biol.* 18: 5121-5127.
5. Struhl, K., **Kadosh, D.**, Keaveney, M., Kuras, L. and Moqtaderi, Z. (1998). Activation and repression mechanisms in yeast. *Cold Spring Harbor Symposium Quant. Biol.* 63: 413-421.
6. **Kadosh, D.** and Johnson, A.D. (2001). Rfg1, a protein related to the *Saccharomyces cerevisiae* hypoxic regulator Rox1, controls filamentous growth and virulence in *Candida albicans*. *Mol. Cell. Biol.* 21: 2496-2505.
7. \*Braun, B.R., \***Kadosh, D.** and Johnson, A.D. (2001). *NRG1*, a repressor of filamentous growth in *C. albicans*, is down-regulated during filament-induction. *EMBO J.* 20: 4753-4761. (\*equal contribution)
8. **Kadosh, D.** and Johnson, A.D. (2005). Induction of the *Candida albicans* filamentous growth program by relief of transcriptional repression: a genome-wide analysis. *Mol. Biol. Cell* 16: 2903-2912.
9. Banerjee, M., Thompson, D.S., Lazzell, A., Carlisle, P.L., Pierce, C., Monteagudo, C., López-Ribot, J.L., and **Kadosh, D.** (2008). *UME6*, a novel filament-specific regulator of *Candida albicans* hyphal extension and virulence. *Mol. Biol. Cell* 19:1354-1365.

Principal Investigator/Program Director (Last, First, Middle): Kadosh, David

10. Carlisle, P.L., Banerjee, M., Lazzell, A., Monteagudo, C., López-Ribot, J.L. and **Kadosh, D.** (2009). Expression levels of a filament-specific transcriptional regulator are sufficient to determine *C. albicans* morphology and virulence. *Proc. Natl. Acad. Sci. USA* 106: 599-604.

*Cover article, see Commentary: Bastidas, R.J. and Heitman, J., Proc. Natl. Acad. Sci. USA 106:351-352 (2009).*

11. Uppuluri, P., Chaturvedi, A.K., Srinivasan, A., Banerjee, M., Ramasubramaniam, A.K., Köhler, J., **Kadosh, D.** and López-Ribot, J.L. (2010). Dispersion as an important step in the *Candida albicans* biofilm developmental cycle. *PLoS Pathog.* 6(3):e1000828

12. Carlisle, P.L. and **Kadosh, D.** (2010). *Candida albicans* Ume6 a filament-specific transcriptional regulator, directs hyphal growth via a pathway involving Hgc1 cyclin-related protein. *Eukaryot. Cell* 9:1320-1328

*Featured as a Spotlight article, Eukaryot. Cell 9:1299 (2010).*

*Featured in the Journal Highlights section of ASM Microbe magazine, Microbe 5(10): 439 (2010).*

13. \*Thompson, D.S., \*Carlisle, P.L. and **Kadosh, D.** (2011). Coevolution of morphology and virulence in *Candida* species. *Eukaryot. Cell* 10(9):1173-1182.

\* These authors made equal contributions.