

## Adam D. Rudner, Ph.D.

### Address

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### Education

- Ph.D. 2000 Program in Biological Sciences, Department of Biochemistry  
University of California, San Francisco, CA
- B.S. 1992 Major in Biochemistry and Biophysics  
Yale University, New Haven, CT

### Research Experience

- 2001-present Postdoctoral Research Fellow  
Department of Cell Biology  
Harvard Medical School, Boston, MA  
Advisor: Danesh Moazed  
Assembly and regulation of heterochromatin in  
*Saccharomyces cerevisiae*
- 2000-2001 Postdoctoral Research Fellow  
Cancer Research Institute, Department of Biochemistry  
University of California San Francisco, CA  
Advisor: David Toczyski  
The role of *SWE1* in cell cycle checkpoints in  
*Saccharomyces cerevisiae*
- 1992-2000 Graduate Student  
Program in Biological Sciences, Department of Biochemistry  
University of California, San Francisco, CA  
Advisor: Andrew Murray  
The role of Cdc28 in the exit from mitosis in *Saccharomyces cerevisiae*
- Winter 1993 Rotation Student  
Program in Biological Sciences, Department of Biochemistry  
University of California, San Francisco, CA  
Advisor: Timothy Mitchison  
Purification of microtubule destabilizing proteins
- Fall 1992 Rotation Student  
Program in Biological Sciences, Department of Biochemistry  
University of California, San Francisco, CA  
Advisor: Cynthia Kenyon  
Analysis of mutations that increase lifespan in *C. elegans*

- Summer 1991      Summer Student  
 Department of Cell Biology  
 Laboratory of Molecular Biology, MRC  
 Cambridge, England  
 Advisor: Hugh Pelham  
 Identification of genes involved in protein sorting to the ER
- 1990-1992      Undergraduate Research Student  
 Department of Biochemistry and Biophysics  
 Yale University, New Haven, CT  
 Advisor: Mark Biggin  
 Transcriptional Repression by *even-skipped*
- Summer 1986      High school Summer Research Student  
 Department of Biology  
 Columbia University, NY  
 Advisor: Alexander Tzagaloff  
 Construction of 1<sup>st</sup> generation pulsed field gel apparatus; first introduction to  
 molecular biology and yeast genetics

## Fellowships and Awards

- 2001-2004      Postdoctoral fellowship from the Jane Coffin Childs Memorial Fund for  
 Medical Research
- 1992-1997      Predoctoral fellowship from the Howard Hughes Medical Institute
- 1992      Predoctoral fellowship from the Churchill Foundation (declined)
- 1992      Graduated with distinction in Biochemistry and Biophysics,  
 Magna Cum Laude
- 1991      Undergraduate Fellowship for Summer Research from the Robert Bates  
 Fund (Jonathan Edwards College, Yale University)
- 1988      National Merit Scholarship

## Teaching Experience

- 1993-present      Designed and supervised research projects for six graduate, rotation and  
 undergraduate students in the Moazed, Murray and Toczyski laboratories.
- 1993      Teaching assistant, graduate biochemistry  
 University of California, San Francisco, CA

## Publications

1. **Rudner, A.D.**, Hall, B.E., Ellenberger, T., Moazed, D. A non-histone protein-protein interaction required for the assembly of the SIR complex and silent chromatin. 2005. *Molecular and Cellular Biology*. **25**, 4514-4528.
2. Denison C., **Rudner A.D.**, Gerber S.A., Bakalarski C.E., Moazed D., Gygi S.P. 2005. A Proteomic Strategy for Gaining Insights into Protein Sumoylation in Yeast. *Molecular and Cellular Proteomics*. 2005. **4**, 246-254 Nov 12
3. Moazed D., **Rudner A.D.**, Huang J., Hoppe G.J., Tanny J.C. A model for step-wise assembly of heterochromatin in yeast. 2004. *Novartis Foundation Symposium*. **259**, 48-56.
4. Hoppe, G.H., Tanny, J.C., **Rudner, A.D.**, Gerber, S.A., Danaie, S., Gygi, S., Moazed, D. 2002. Steps in assembly of silent chromatin in yeast: Sir3-independent binding of a Sir2/Sir4 complex to silencers and role for Sir2-dependent deacetylation. *Molecular Cellular Biology*. **22**, 4167-4180.
5. **Rudner, A.D.**, Hardwick, K.G. and Murray, A.W. 2000. Cdc28 activates the exit from mitosis. *Journal of Cell Biology*. **149**, 1361-1376.
6. **Rudner, A.D.**, and Murray, A.W. 2000. Phosphorylation by Cdc28 activates the Cdc20-dependent activity of the anaphase promoting complex. *Journal of Cell Biology*. **149**, 1377-1390.
7. Hardwick, K.G., Li R., Mistrot, C., Chen, R.H., Dann, P., **Rudner, A.**, Murray, A.W. 1999. Lesions in many different spindle components activate the spindle checkpoint in the budding yeast *Saccharomyces cerevisiae*. *Genetics*. **152**, 509-18.
8. **Rudner, A.D.** and Murray, A. W. 1996. The spindle assembly checkpoint. *Current Opinions in Cell Biology*. **8**, 773-780.
9. Minshull, J., Straight, A., **Rudner, A.**, Dernburg, A., Belmont, A. and Murray, A. W. 1996. Protein phosphatase 2A regulates MPF activity and sister chromatid cohesion in budding yeast. *Current Biology*. **6**, 1609-1620.
10. Kenyon, C., Chang, J., Gensch, E., **Rudner, A.** and Tabtiang, R. 1993. A *C. elegans* mutant that lives twice as long as wild type. *Nature* **366**, 461-464.
11. Hardwick, K.G., Boothroyd, J.C., **Rudner, A.D.** and Pelham, H.R. 1992. Genes that allow yeast cells to grow in the absence of the HDEL receptor. *Embo Journal* **11**, 4187-4195

## Invited Talks

1. **Rudner, A.D.**, Gerber, S.A., Gygi, S.P., and Moazed, D. Purification of native silent chromatin. ASCB Annual Meeting, Chromatin Dynamics Minisymposium. San Francisco, CA. December 2005.
2. **Rudner, A.D.** Purification of native silent chromatin. Wesleyan University, Middletown, CT. October 2005.
3. **Rudner, A.D.**, Gerber, S.A., Gygi, S.P., and Moazed, D. Purification of native silent chromatin in budding yeast. Chromosome Dynamics Gordon Conference, New London, NH. August 2005.

4. **Rudner, A.D.** Assembly and disassembly of silent chromatin in budding yeast. Hunter College, CUNY. May 2003.
5. **Rudner, A.D.** and Murray, A.W. Cdc28 phosphorylates and activates the APC. Molecular Genetics Gordon Conference. New London, CT. July 2000.
6. **Rudner, A.D.**, Hardwick, K.G. and Murray, A.W. Adaptation to checkpoint arrest requires inhibitory phosphorylation on Cdc28. The Cell Cycle, Roscoff, France. October, 1997.

## References

Danesh Moazed (Postdoctoral Advisor)  
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Andrew W. Murray (Thesis Advisor)  
MCB, Harvard University  
16 Divinity Ave, Room 3000  
Cambridge, MA 02138  
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e-mail: [amurray@mcb.harvard.edu](mailto:amurray@mcb.harvard.edu)

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