

Curriculum Vitae  
**Jasper Rine**

Address:	Work	Home
	Department of Molecular and Cellular Biology Division of Genetics California Institute for Quantitative Biosciences 374A Stanley Hall University of California Berkeley, CA 94720-3202 Tel: 510-642-7047 Fax: 510-666-2768	400 Western Drive Richmond, California 94801  510-232-4293 Birth Date: October 16, 1953

### Higher Education

Post-doctoral Fellow Stanford University School of Medicine Advisor: Ronald W. Davis	1980-1982
University of Oregon, Ph.D. Molecular Genetics Advisor: Ira Herskowitz	1975-1979
State University of New York at Albany B.S. Biological Sciences, Magna Cum Laude	1971-1975

### Professional Experience

Professor of Genetics Division of Genetics, Genomics and Development Department of Molecular and Cell Biology University of California, Berkeley	1990-Present
Director, Human Genome Center Lawrence Berkeley Labs Berkeley, California	1991-1994
Associate Professor of Genetics Division of Genetics Department of Molecular and Cell Biology University of California, Berkeley	1989-1990
Assistant Professor of Biochemistry Department of Biochemistry University of California, Berkeley	1982-1988

### Honors/Awards

N.I.H. Postdoctoral Fellowship	1980-1982
The Camille and Henry Dreyfus Teacher Scholar Award	1986
Miller Research Professor, UC Berkeley	1993
Philips Distinguished Lecturer, Haverford College	1993
American Academy of Microbiology – Fellow Election	1993

Streisinger Lecturer, University of Oregon	1993
UCB Distinguished Teaching Award	1997
Richard & Rhoda Goldman Distinguished Professor of Biology	1997-2001
NIH Merit Award	1998-2008
Carnegie Institute Public Lecture	2001
AAAS Fellow Election	2003
Gabriel Lester Lecture- Reed College	2003
HHMI Professor	2006-2010
American Academy of Arts and Science election	2008
National Academy of Science election	2008
Menten Lecture- University of Western Ontario	2009
Winge-Lindegren Lecture, Genetics Society of America	2010
Sadler Lecture- University of Colorado, Denver	2011
President Elect, President, Past President Genetics Society of America	2013-2015
National Academy of Inventors election	2015
Sonnenborn Lecture- U. Indiana	2016

### Professional Activities

Genetic Dissection Training Grant UCB PI	2019-
UCB- Faculty Awards Committee	2019
External Advisory Board UCSC MCD Training Grant	2019-
Chan Zuckerberg Biohub Berkeley Steering Committee	2019-
Metzenberg Award Jury	
Division Head Genetics Genomics and Development	2018
Washington Research Foundation Fellows Committee	2018-
NAS-Army Research Review Committee	2018
NAS- Molecular Biology Prize Jury	2018
NAS Class Membership Committee	2017
FASEB Board of Directors	2014-2016
National Academy of Sciences- Temporary Nominating Group	2014
Genetics Society of America Executive Committee	2014-2016
Chair, External Review, Harvard Med Genetics Dept.	2013
Life Sciences Research Foundation Advisory Board	2011-
Editorial Board, Genes, Genomes and Genetics	2011-
Miller Institute Executive Committee UCB	2010-2017
Reviews Editor, Genetics	2010-
Faculty of 1000-Member	2010-2013
Chair, CIFAR Program Review	2010
Chair, External Review, Biology Dept, U. Utah	2010
External Review Committee, Biology Dept UC Riverside	2010
Editorial Board, PNAS	2008-
Editorial Board, Epigenetics and Chromatin	2008-
Director, Center for Computational Biology, UCB	2006- 2010
ASM Graduate Micro Teaching Award Committee	2006- 2010
Artemisinin Project Scientific Advisory Board	2006-2008
U. of Washington Genome Sciences Review Committee	2006
U. of Stockholm Faculty Search Committee	2006
System X Scientific Advisory Board, U. Basel, U. Zurich	2005-2010
University of Alaska INBRE, Advisory Board	2005-2010

Chancellor's Advisory Committee for Biology, UCB	2005-
European Union NoE Heterochromatin Advisory Board	2004-2010
Editorial Board Annual Review Cell. Develop. Biol.	2003-2009
NIH-NCHGR Encode Advisory Committee	2003-2011
Chair NIH Advisory Com. Yeast Resource Center	2002-
University of Washington	
University of Minnesota MCB External Review Committee	2003
Editorial Board, Annual Review of Biochemistry, Guest	2003
University of California Budget Committee	2000-2003
Co P.I. Genomics Training Grant, UC Berkeley	2000-
Editorial Board, Bioprotocol	2000-2001
Editorial Board, Genetics	2000-2002
External Review Committee, Univ. Washington, Genetics Dept.	2000
Editorial Board, Genome Biology	1999-2011
NADI Oversight Committee, UC Berkeley	1999-2003
Chair, Academic Senate Committee on Teaching	1999-2001, 2004
Damon Runyon/Walter Winchell Cancer Fund Scientific Advisory Committee	1999-2004
Chair, Genetics Program, External Review Committee, University of Wisconsin	1998
USDA Plant Gene Expression Center Sequencing Project Advisory Committee	1997-1999
Exploratorium Life Sciences Division Advisory Comm.	1997
Founder, Acacia Biosciences	1995
Chancellor's Biotechnology Planning Board, University of California, Berkeley	1993-2000
External Review Committee, University of Wisconsin, McArdle Laboratory	1993-2001
D.O.E.-N.I.H. Human Genome Coordinating Committee	1992-1994
Organizer, Lucille P. Markey Symposium on Genomes and Genome Analysis	1992
Principle Investigator, UC Berkeley, Genetics Training Grant	1990-1993
NIH Study Section, Microbial Physiology	1991-1993
Editorial Board, <i>Molecular and Cellular Biology</i>	1989-2003
American Cancer Society, California Division, Postdoctoral Fellowship Panel	1989-1992
American Cancer Society Research Panel, ad hoc member	1989-1990
National Yeast Committee	1985-1987
<b>Consulting</b>	
Chiron Corp., Emeryville, California	1982-1995
Squibb, Princeton, New Jersey	1985-1987
Merck, Sharp & Dohme, Rahway, New Jersey	1988-1991
Myriad Genetics, Scientific Advisory Board	1991-2000
Acacia Biosciences, Founder and Chair, SAB	1995-1999
Arcaris Genetics, Inc. Scientific Advisory Board	1996-2001
Gemini Research, Ltd., UK, Chair Scientific Advisory Brd	1996-2001
Rosetta Inpharmatics, Scientific Advisory Board	1999-200
Affymetrix Inc. Scientific Advisory Board,	1999-2006
Genesoft Inc.	2000-2001
Taxon Biosciences, Founder and Chair SAB	2000-2015
Amyris Biotechnology-consultant	2006-2013

Vitapath Genetics Founder and Chair SAB Dupont-Pioneer Protocols.io Boost Biomes	2009-2013  20016- 2018-
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### Professional Societies

Genetics Society of America  
American Society of Microbiology  
American Association for the Advancement of Science  
American Academy of Arts and Sciences  
National Academy of Sciences  
National Academy of Inventors

### Current Grant Support

NIH GM31105. Genetic investigation of genes controlling a position effect. 7/1/82 through 6/30/2021. \$349,344 current year.

NIH GM120374 Metabolism and Epigenetics 7/1/2016-6/30/2020 Approx. \$380,000 current year.

### Former Postdoctoral Fellows

David Rivier, Associate Professor of Microbiology, University of Illinois  
Lorraine Pillus, LSRF Professor of Molecular, Cell, and Developmental Biology, University of California, San Diego  
Robin Wright, ACS Fellow, Associate Dean and Professor, University of Minnesota  
Christian Sengstag, Swiss NSF Assistant Professor, University of Zurich  
Jules O'Rear, Food and Drug Administration, Antimicrobial Review Officer American Heart Association Fellowship  
Elaine Ostrander, Staff Scientist, National Center for Human Genome Research, NIH  
Randy Hampton, Professor, University of California, San Diego Helen Hay Whitney  
Catherine Fox, Professor, University of Wisconsin, Damon Runyon  
Paul Herman, Professor, Ohio State University Damon Runyon  
Rohinton Kamakaka, Professor, UC Santa Cruz.  
Matthew Ashby, President, Taxon Biosciences, Inc. American Cancer Society  
Tetsuro Kugo Kiowa-Hakko- Japan  
Ann Ehrenhofer-Murray, Professor, University of Essen, Germany. Swiss NSF  
Stefan Astrom, Associate Professor, University of Stockholm, Swedish Fellowship  
Danika Metallinos- Associate Professor, University of California Vet School. Davis  
Cynthia E. Trueblood retired, Damon Runyon  
Mark Neff- Head, Laboratory of Canine Genetics, Translational Genomics and VanAndel Institute DOE Alexander Humbolt Fellowship  
Qun Shan- founder Quintana (biotech company) Miller Institute Fellowship  
Penny Chua- Senior Scientist, Amyris, American Cancer Society  
Rebecca Bacon-Deceased, Leukemia Society  
Christopher Yoo-President and CEO, MedTrust Online LLC ,Jane Coffin Childs  
Ann Kirchmaier- Associate Professor, Purdue University American Cancer Society  
Laura Rusche- Associate Professor, SUNY Buffalo-Damon Runyon  
Michael Kobor, Associate Professor- U of British Columbia, Human Frontiers  
Lena Hwang- Scientist at UCSF  
Bernhard Suter- Group Leader Max Delbruck Centrum, Berlin EMBO-Fellowship  
Ho Jeong- Scientist, staff scientist, Biotech in Irvine Ca.

Jennifer Gallagher- Assistant Professor, University of West Virginia; NSF Postdoctoral Fellowship  
Jake Mayfield-University of Massachusetts- Adjunct Professor U.Mass Amherst.  
Qiaoning Guan- Assistant Professor Cincinnati Children's Hospital Medical Center  
Lauren Richardson- Editor at PLOS Biology  
Kathryn Hart- - Assistant Professor, Williams College  
Sarah Bissonnette-NIH Fellowship Assistant Professor, California State University Merced  
Ryan Janke-U.C. Davis NIH Fellowship- Staff Scientist Novozyme  
David Lyons- John Innes Institute Norwich

### **Former Graduate Students- Last Position Held**

Georjana Barnes, Professor, UC, Berkeley  
Michael Basson, Associate Editor, Nature Medicine, New York, NSF Predoctoral  
Rogene Schnell, Student Affairs Officer, University of Minnesota  
William Kimmerly, Program Manager Pacific Northwest Labs  
Mary Thorsness, Associate Research Professor, University of Wyoming  
Frank McNally, Associate Professor, UC Davis, NSF Predoctoral  
William Schafer, Professor MRC Cambridge-NSF Predoctoral  
Margit Foss, Research Associate, Oregon State University, Corvallis  
Amy Axelrod, Associate Editor, Cell-now retired, Office of Naval Research  
Patricia Laurenson, Instructor, University of California, San Diego- now retired  
Stephen Loo, On family leave NSF Predoctoral  
Dago Dimster-Denk, Staff Scientist, University of California  
Laree Hiser, Research Scientist, University of Mississippi  
Laurie Issel-Tarver, HHMI Predoctoral Fellowship Professor of Biology, Ohlone College  
Jennifer Whistler, Associate Adjunct Professor, University of California, San Francisco  
Victor Boyartchuk, Associate Professor University of Oslo  
Andrew Dillin, Professor, University of California, Berkeley  
Melissa DeMille- joint student with Gerry Rubin- Yale  
Sara Okamura, Scientist, University of Hawaii., NSF Predoctoral  
Ashild Vik. Research Fellow, University of Oslo, Norwegian NSF  
Peter Garber- Post-doctoral Fellow, UCSF  
Brandon Davies-Postdoctoral Fellow UCLA, Currently Associate Professor, U. Iowa  
Josh Babiarz- Scientist, Natura  
Lily Chao- Scientist -Intrexon  
Bilge Ozaydin- Scientist- Life Sciences Research and Application Center of Gazi University at Ankara  
Leonid Teytelman- Postdoctoral Fellow MIT, Founder and CEO Protocols IO,NSF  
Meru Sadhu, Postdoctoral Fellow UCLA, Cal Tech  
Jeff Halley-Stanford On-Line High School- NSF Predoctoral  
Erin Osborne- Postdoctoral Fellow, UNC. NSF Predoctoral  
Oliver Zill- Postdoctoral Fellow, UCSF, NSF Predoctoral, Scientist at Genenetch  
Laura Lombardi- Postdoctoral Fellow, Baylor College of Medicine  
Rachel Zunder- Scientist, Impossible Foods; NSF Predoctoral fellowship  
David Steakley University of Vermont, NSF-Predoctoral Fellowship –Teach for America  
Debbie Thurtle- Santa Clara University, NSF Predoctoral Fellowship, Postdoctoral Fellow UCSF, Assistant Professor, Davidson College.  
Aisha Ellahi, University of Texas, NSF Predoctoral Fellowship- Scientist Twist Biosciences  
Anne Dodson-NSF Fellowship, Postdoctoral Fellow- Harvard Medical School

David McCleary- NIH Fellowship Labor Organizer for academic union  
Kathryn Sieverman- U. Texas- MCB Instructor UCB  
Gavin Schlissel- Princeton MIT Postdoc

#### Present Graduate Students

Daniel Saxton- Lewis and Clark College, NSF Predoctoral  
Davis Goodnight-Columbia University NSF Predoctoral  
Eliana Bondi Cornell, NSF Predoctoral  
Molly Brothers- University of Pennsylvania, NSF Predoctoral.

#### Current Postdoctoral Fellows:

Marc Fouet- France

#### Patents

U.S. Patent 5,589,341 - Origin of Replication Complex Genes and Methods for Using Same - Issued December 31, 1996.  
U.S. Patent 5,569,588 - Genome Reporter Matrix and Methods for Drug Screening - Issued October 1996.  
U.S. Patent 5,777,888 – Systems for Generating and Analyzing Stimulus-Response Output Signal Matrices.  
U.S. Patent 6,107,462 – Genes & Proteins Controlling Cholesterol Synthesis.  
US Patent 6,333,172 B1 Genes and Proteins Controlling Cholesterol Synthesis- Issued 12/25/01  
U.S. Patent 6, 326,140 B1 Systems for Generating and Analyzing Stimulus-Response Output Signal Matrices. Issued 14/04/01.  
U.S. Patent 6,391, 574 Method for Identifying Inhibitors of the Isoprenylated CAAX Processing Enzymes Afc1 and Rce1. Issued 5/21/02  
US Patent 6,574,568 Systems for generating and analyzing stimulus-response output matrices. Issued June 3,2003  
US Patent 6,531,292 Genes and Proteins Controlling Cholesterol Synthesis. Issued March 11,2003  
US Patent 7,029,911 Afc1 and Rce1, Isoprenylated CAAX Processing Enzymes April 18, 2006  
US Patent Application 61/313,615 and 61/041,161 Cells with Nonnatural Physiologies Derived by Expressing Light-Powered Pumps in One of More Membranes

#### PRIMARY RESEARCH PUBLICATIONS

- Jacklet, J.W., and J. Rine (1977). Facilitation at neuromuscular junctions: contribution to habituation and dishabituation of the *Aplysia* gill withdrawal reflex. *Proc. Natl. Acad. Sci.* **74**: 1261-1271.
- Rine, J., J.N. Strathern, J.B. Hicks, and I. Herskowitz (1979). A suppressor of mating-type locus mutations in *Saccharomyces cerevisiae*: evidence for and identification of cryptic mating-type loci. *Genetics* **93**: 877-901.
- Rine, J., and I. Herskowitz (1980). The trans action of *HMRa* in mating-type interconversion. *Molec. Gen. Genet.* **180**: 99-105.
- Rine, J., R. Jensen, D. Hagen, L. Blair, and I. Herskowitz (1980). The pattern of switching and the fate of the replaced cassette in yeast mating-type interconversion. *C.S.H.Symp .Quant. Biol.* **45**: 951-960.

- Rine, J., G.F. Sprague, Jr., and I. Herskowitz (1981). *rme1-1* mutation of *Saccharomyces cerevisiae*: map position and bypass of mating-type locus control of sporulation. *Molec. Cell. Biol.* **1**: 958-960.
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- Rine, J., W. Hansen, E.C. Hardeman, and R.W. Davis (1983). Targeted selection of recombinant clones through gene dosage effects. *Proc. Natl. Acad. Sci. USA* **80**: 6750-6754.
- Barnes, G., W. Hansen, C.L. Holcomb, and J. Rine (1984). Asparagine-linked glycosylation in *Saccharomyces cerevisiae*: genetic analysis of an early step. *Molec. Cell. Biol.* **4**: 2381-2388.
- Barnes, G. and J. Rine (1985). Regulated expression of endonuclease EcoRI in *Saccharomyces cerevisiae*: nuclear entry and biological consequences. *Proc. Natl. Acad. Sci. USA* **82**: 1354-1358.
- Schnell, R., and J. Rine (1986). A position effect on the expression of a tRNA gene mediated by the *SIR* genes in *Saccharomyces cerevisiae*. *Molec. Cell. Biol.* **6**: 494-501.
- O'Rear, J., and J. Rine (1986). Precocious meiotic centromere separation of a novel yeast chromosome. *Genetics* **113**: 517-529.
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- Rine, J., and I. Herskowitz (1987). Four genes responsible for a position effect on expression from *HML* and *HMR* in *Saccharomyces cerevisiae*. *Genetics* **116**: 9-22.
- Kimmerly, W.J., and J. Rine (1987). The replication and segregation of plasmids containing cis-acting regulatory sites of silent mating-type genes in *Saccharomyces cerevisiae* is controlled by *SIR*. *Molec. Cell. Biol.* **7**: 4225-4237.
- Basson, M.E., R.L. Moore, J. O'Rear, and J. Rine (1987). Identifying mutations in duplicated functions in *Saccharomyces cerevisiae*: recessive mutations in HMG-CoA reductase. *Genetics*: **117**: 645-655.
- Buchman, A.R., W.J. Kimmerly, J. Rine and R.D. Kornberg (1988). Two DNA binding factors recognize specific sequences at silencers, upstream activating sequences, autonomously replicating sequences and telomeres in *Saccharomyces cerevisiae*. *Molec. Cell. Biol.* **8**: 210-225.
- Rio, D.C., G. Barnes, F.A. Laski, J. Rine, and G.M. Rubin (1988). Evidence for *Drosophila* P element transposase activity in mammalian cells and yeast. *J. Mol. Biol.* **200**: 411-415.

- Wright, R., M.E. Basson, L. D'Ari, and J. Rine (1988). Increased amounts of HMG-CoA reductase induce karmellae: a proliferation of stacked membrane pairs surrounding the yeast nucleus. *J. Cell. Biol.* **107**: 101-114.
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- Basson, M.E., M.K. Thorsness, J. Finer-Moore, R.M. Stroud, and J. Rine (1988). Structural and functional conservation between yeast and human 3-hydroxy-3-methylglutaryl Coenzyme A reductase, the rate-limiting enzyme of sterol biosynthesis. *Molec. Cell. Biol.* **9**: 3797-3808.
- Schnell, R., L. D'Ari, M. Foss, D. Goodman, and J. Rine (1989). Genetic and molecular characterization of suppressors of *SIR4* mutations in *Saccharomyces cerevisiae*. *Genetics*:**122**: 29-46.
- Schafer, W.R., R. Kim, R. Sterne, J. Thorner, S.-H. Kim, and J. Rine (1989). Genetic and pharmacological suppression of oncogenic mutations of *RAS* genes of yeast and humans. *Science* **245**: 379-385.
- Thorsness, M., W. Schafer, L. D'Ari, and J. Rine (1989). Positive and negative transcriptional control by heme of genes encoding HMG-CoA reductase in *Saccharomyces cerevisiae*. *Molec. Cell. Biol.*, **9**: 5702-5712.
- Pillus, L., and J. Rine (1989). Epigenetic inheritance of transcriptional states in *Saccharomyces cerevisiae*. *Cell*. **59**: 637-647.
- Sengstag, C., C. Stirling, R. Schekman, and J. Rine (1990). Genetic and biochemical evaluation of eukaryotic membrane protein topology: the multiple transmembrane domains of *S. cerevisiae* HMG-CoA reductase. *Molec. Cell. Biol.* **10**: 672-680.
- Kim, R., J. Rine, and S.-H. Kim (1990). Prenylation of mammalian Ras protein in *Xenopus* oocytes. *Molec. Cell. Biol.* **10**: 5945-5949.
- Wright, R., G. Keller, S.J. Gould, S. Subramani, and J. Rine (1990). Cell-type control of membrane biogenesis induced by HMG-CoA reductase. *New Biologist* **2**: 915-921.
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- Schafer, W.R.; C.E. Trueblood, C.C. Yang, M.P. Mayer, S. Rosenberg, C. D. Poulter, S.-H. Kim, and J. Rine (1990) Enzymatic coupling of cholesterol intermediates to a mating pheromone precursor and to the Ras protein. *Science* **249**: 1133-1139.
- Axelrod, A.R., and J. Rine (1991). A role for *CDC7* in repression of transcription at the silent mating type locus HMR in *Saccharomyces cerevisiae*. *Molec. Cell. Biol.* **11**: 1080-1091.
- McNally, F.J., and J. Rine (1991). A synthetic silencer mediates SIR-dependent functions in *Saccharomyces cerevisiae*. *Molec. Cell. Biol.* **11**: 5648-5659.



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- Ostrander, E., P. Jong, J. Rine and G.M. Duyk, (1992). Construction of small-insert genomic DNA libraries highly enriched for microsatellite repeat sequences. *P.N.A.S.* **89**: 3419-3423.
- Rivier, David H., J. Rine (1992). An Origin of DNA Replication and a Transcription Silencer Require a Common Element. *Science*. **256**: 659-663.
- Ostrander, E.A., G.F. Sprague, and J. Rine (1993). Identification and characterization of simple sequence repeat markers for genetic mapping in dog. *Genomics*. **15**:207-213.
- Trueblood, C.E., Y. Ohya, and J. Rine (1993). Genetic Evidence for In Vivo Cross-Specificity of the CaaX-Box Protein Prenyltransferases, Farnesyltransferase and Geranylgeranyltransferase-I, in *Saccharomyces cerevisiae*. *Molecular and Cellular Biology*. **13**: 4260-4275.
- Ashby, M.N., P.R. Errada, V.L. Boyartchuk, and J. Rine (1993). Isolation and DNA Sequence of the *STE14* Gene Encoding Farnesyl Cysteine: Carboxyl Methyltransferase. *Yeast*. **9**: 907-913.
- Foss, M., and J. Rine (1993). Molecular Definition of the *PAS1-1* Mutation Which Affects Silencing in *Saccharomyces cerevisiae*. *Genetics*. **135**: 931-935.
- Foss, M., F.J. McNally, P. Laurenson, and J. Rine (1993). Origin Recognition Complex (ORC) in Transcriptional Silencing and DNA Replication in *Saccharomyces cerevisiae*. *Science*. **262**: 1838-1844.
- Hampton, R.Y., and J. Rine (1993). Regulated Degradation of HMG-CoA Reductase, an Integral ER Membrane Protein, in *Saccharomyces cerevisiae*. *Journal of Cell Biology*. **125**: 299-312.
- Lishanski, A., E.A. Ostrander, and J. Rine (1994). Mutation detection by mismatch binding protein, MutS, in amplified DNA: application to the cystic fibrosis gene. *P.N.A.S.* **91**: 2674-2678.
- Lowry, S.R., K. Wilson, R. Blazej, J. Chiu, J. Rine, and E.A. Ostrander (1994). Identification, Characterization and Physical Mapping of Polymorphic Simple Sequence Repeat Markers on Human Chromosome 21. *Genomics*. **21**: 633-637.
- Dimster-Denk, D., M. Thorsness, and J. Rine (1994). Feedback Regulation of 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase in Yeast. *Molecular Biology of the Cell*. **5**: 655-665.
- Loo, S., and J. Rine (1994). Silencers and Domains of Generalized Repression. *Science*. **264**: 1768-1771.

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- Dimster-Denk, D., W.R. Schafer, and J. Rine (1995). Control of *RAS* mRNA Level by the Mevalonate Pathway. *Molecular Biology of the Cell*. **6**: 59-70.
- Ostrander, E., Mapa, F.A., Yee, M., and Rine, J. (1995). One hundred new simple sequence repeat-based markers for the canine genome. *Mammalian Genome* **6**: 192-195.
- Fox, C.A., S. Loo, A. Dillin, and J. Rine (1995). The Origin Recognition Complex has Essential Functions in Transcriptional Silencing and Chromosomal Replication. *Genes and Development*. **9**: 911-924.
- Loo, S., C. A. Fox, J. Rine, R. Kobayashi, B. Stillman, and S. Bell (1995). The Origin Recognition Complex in Silencing, Cell Cycle Progression, and DNA Replication. *Molecular Biology of the Cell*. **6**: 741-756.
- Kamb, A., C. Wang, A. Thomas, B.S. DeHoff, F.H. Norris, J. Rine, M. Skolnick, and P.R. Rosteck, Jr., (1995). Software Trapping: A New Strategy for Finding Genes in Large Genomic Regions. *Computers & Biomedical Research*. **28**:140-153.
- Loo, S., P. Laurenson, M. Foss, A. Dillin, and J. Rine (1995). Roles of *ABF1*, *NPL3*, and *YCL54* in Silencing in *Saccharomyces cerevisiae*. *Genetics*. **141**: 889-902.
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- Parrish, M., C. Sengstag, J. Rine and R. Wright (1995). Identification of the sequences in HMG-CoA reductase required for karmellae assembly. *Molecular Biology of the Cell*. **6**: 1535-1547.
- Hampton, R.Y., A. Koning, R. Wright, and J. Rine (1996). *In Vivo* Examination of Membrane Protein Localization and Degradation with GFP. *Proc. Natl. Acad. Sci. USA*. **93**: 828-833.
- Dimster-Denk, D., and J. Rine (1996). Transcriptional regulation of a sterol biosynthetic enzyme by sterol levels in *Saccharomyces cerevisiae*. *Molecular & Cell Biology*. **16**: 3981-3989.
- Issel-Tarver, L., and J. Rine (1996). Organization and Expression of Canine Olfactory Receptor Genes. *P.N.A.S.* **93**: 10897-10902.
- Hampton, R.Y., and J. Rine (1996). Role of 26S Proteasome and *HRD* Genes in the Degradation of 3-Hydroxy-3-Methylglutaryl-CoA Reductase, an Integral Endoplasmic Reticulum Membrane Protein. *M.B.O.C.* **12**: 2029-2044.
- Issel-Tarver, L., and J. Rine (1997). The Evolution of Mammalian Olfactory Receptor Genes. *Genetics*. **145**: 185-195.
- Fox, C.A., A.E. Ehrenhofer-Murray, S. Loo, and J. Rine (1997). ORC, *SIR1*, and the S-phase-requirement for Silencing. *Science*. **276**: 1547-1551.

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- Ehrenhofer-Murray, A.E., D.H. Rivier, and J. Rine (1997). The Role of Sas2, an acetyltransferase homologue of *Saccharomyces cerevisiae* in Silencing and ORC Function. *Genetics*. **145**: 923-934.
- Boyartchuk, V.L., M.N. Ashby, and J. Rine (1997). CAAX Proteolysis Modulates the Activity and Localization of Prenylated Ras and a-Factor. *Science*. **275**: 1796-1800.
- Moazed, D., A. Kistler, A. Axelrod, J. Rine and A.D. Johnson (1997). SIR protein complexes in *S. cerevisiae*. A SIR2/SIR4 complex and evidence for a regulatory domain in SIR4 that inhibits its interaction with SIR3. *P.N.A.S.* **94**: 2186-2191.
- Whistler, J.L., and Jasper Rine (1997). Ras2 and Ras1 Protein Phosphorylation in *Saccharomyces cerevisiae*. *Journal of Biological Chemistry*. **272**: 18790-18800.
- Trueblood, C.E., V.L. Boyartchuk and J. Rine (1997). Substrate Specificity Determinants in the Farnesyltransferase b-subunit. *P.N.A.S.* **94**: 10774-10779.
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