

CURRICULUM VITAE

Nevan J. Krogan

Position: Associate Professor
Department of Cellular and Molecular Pharmacology
California Institute for Quantitative Biomedical Research
School of Medicine

Address: Byers Hall, Room 308D
University of California, San Francisco
1700 4th Street, MC 2530
San Francisco, CA 94158

Voice: 415-476-2980
Fax: 415-514-9736
Cell: 415-310-4524
e-mail: krogan@cmp.ucsf.edu

Employment History:

July 2009-present	University of California-San Francisco, Associate Professor
August 2007-June 2009	University of California-San Francisco, Assistant Professor
January 2006-August 2007	University of California-San Francisco, Sandler Fellow

Education:

1999-2005	University of Toronto, Canada	PhD	Medical Genetics
1997-1999	University of Regina, Canada	MSc	Biochemistry
1993-1997	University of Regina, Canada	BSc (High Honors)	Chemistry

Honors and Awards:

1995-1996	Canadian Cancer Society Studentship
1997	Society of Chemical Industry Merit Award
1999-2001	Natural Sciences and Engineering Research Council PGS-B Award
2001-2004	Canadian Institute of Health Research (CIHR) Doctoral Fellowship
2004	Hannah Farkas-Himsley and Alexander Memorial Award
2005	L. W. Macpherson Microbiology Award
2008	Top 25 authors of high-impact papers in molecular biology and genetics from 2002 to 2006 (http://sciencewatch.com/ana/fea/08janfebFea/)
2009-2012	Searle Scholar, Searle Foundation
2009-2014	Keck Distinguished Young Scholar, W. M. Keck Foundation

Invited Presentations:

1. Canadian Society of Microbiologists (CSM) Meeting, Guelph, ON, Canada (June 1998)
2. Canadian Society of Microbiologists (CSM) Meeting, Montreal, QUE, Canada (June 1999)
3. Affinium Pharmaceuticals, Toronto, ON, Canada (Oct 2002)
4. Understanding Phage Display Meeting, Morris J. Wosk Centre for Dialogue, Simon Fraser University, Vancouver, BC, Canada (Jan 2003)

5. ASBMB Meeting, Proteomic Solutions in Cellular and Developmental Biology and Medicine, Stowers Institute for Medical Research, Kansas City, MO, USA (May 2003)
6. The Wellcome Trust Sanger Institute, Hinxton, UK (May 2003)
7. Royal College of Surgeons, Dublin, Ireland (May 2003)
8. University of California, Berkeley (UC-Berkeley) (June 2003)
9. University of California, San Francisco (UCSF) (June 2003)
10. Massachusetts Institute of Technology (MIT), Center for Genomics Semantics Systems Biology Project Retreat, Boston, MA (July 2003)
11. University of California, Los Angeles (UCLA) (Nov 2003)
12. University of New Mexico Health Sciences Center, Albuquerque, NM (Jan 2004)
13. The Wistar Institute, Philadelphia, PA (March 2004)
14. Laval University, Quebec City, Quebec, Canada (April 2004)
15. ASBMB Meeting, Genomics, Proteomics and Bioinformatics, Boston, MA (June 2004)
16. Bauer Center for Genomics Research, Harvard University, Cambridge, MA (June 2004)
17. Tufts University, Boston, MA (June 2004)
18. University of California, San Francisco (UCSF) (July 2004)
19. Yeast Genetics and Molecular Biology Meeting, Seattle, WA (July 2004)
20. Yale University, New Haven, CT (August 2004)
21. EMBL Transcription Meeting, Heidelberg, Germany (August 2004)
22. University Medical Centre-Utrecht, Utrecht, Holland (Sept 2004)
23. Conway Institute, University College, Dublin, Ireland (Sept 2004)
24. Brandeis University, Waltham, MA (Dec 2004)
25. MAYO Clinic, Rochester, MN (Dec 2004)
26. University of Oxford, Oxford, UK (Jan 2005)
27. London Research Institute, Clare Hall Laboratories, London, UK (Jan 2005)
28. University of Cambridge, Cambridge, UK (Jan 2005)
29. Columbia University, New York, NY (Feb 2005)
30. University of North Carolina, Chapel Hill, NC (Feb 2005)
31. Keystone Meeting: Chromatin Modification Pathways, Snowbird, UT (March 2005)
32. University of California, San Francisco (UCSF) (April 2005)
33. Broad Institute, Massachusetts Institute of Technology (MIT), Boston, MA (May 2005)
34. Wistar Institute, Philadelphia, PA (June 2005)
35. Gordon Conference: Structural, Functional and Evolutionary Genomics, Lewiston, ME (June 2005)
36. University of California, San Francisco (UCSF) (June 2005)
37. Seventh International Symposium on Mass Spectrometry in the Health and Life Sciences, San Francisco, CA (August 2005)
38. St. Louis School of Medicine, St. Louis, MO (Sept 2005)
39. University of North Carolina, Chapel Hill, NC (Sept 2005)
40. State University of New York, Albany, NY (Oct 2005)
41. Abcam Chromatin Structure and Function Meeting, Nassau, Bahamas (Nov 2005)
42. Johns Hopkins University School of Medicine, Baltimore, MA (Dec 2005)
43. Keystone Meeting: Signaling Networks, Vancouver, BC, Canada (Jan 2006)
44. American Society for Microbiology (ASM) Fungal Systems Biology Meeting, Denver, CO (March 2006)
45. ESF/EMBO Meeting: Gene Transcription in Yeast, Sant Feliu de Guixois, Spain (June 2006)
46. University of California, Santa Cruz (July 2006)
47. Vanderbilt University Medical School, Nashville, TN (August 2006)
48. EMBL Transcription Meeting, Heidelberg, Germany (August 2006)
49. Telomeres and Genome Stability Meeting, Villars-sur-Ollon, Switzerland (Sept 2006)
50. Michael Smith Lecture, University of British Columbia, Vancouver, BC, Canada (Sept 2006)

51. Amgen, South San Francisco, CA (Oct 2006)
52. EMBL/EMBO Symposium: From Functional Genomics to Systems Biology, Heidelberg, Germany (Oct 2006)
53. Swiss Yeast Meeting, Basel, Switzerland (Oct 2006)
54. Ontario Cancer Institute, Toronto, Ontario (Nov 2006)
55. RECOMB Conference on Computational Proteomics, San Diego, CA (Dec 2006)
56. Albert Einstein College of Medicine, Bronx, NY (Feb 2007)
57. Systems Biology: Molecular Networks Meeting, Montreal, Quebec, Canada (Keynote Speaker) (March 2007)
58. Association of Biomolecular Resource Facilities (ABRF) Meeting: Creating the Biological Roadmap, Tampa, Florida (March 2007)
59. Michigan State University, East Lansing, MI (March 2007)
60. Keystone Meeting on Epigenetics: Regulation of Chromatin Structure in Development and Disease, Colorado (April 2007)
61. Dutch Molecular Biology Meeting, Nijmegen, The Netherlands (April 2007) (Keynote Speaker)
62. Nijmegen Centre for Molecular Life Sciences, Nijmegen, The Netherlands (April 2007)
63. Interactome Mapping Project for Human and Model Organisms, Banbury Center, Cold Spring Harbor Laboratory, NY (April 2007)
64. 4th International Fission Yeast Conference, Copenhagen, Denmark (June 2007)
65. Ottawa Institute of Systems Biology, University of Ottawa, Ottawa, Ontario, Canada (June 2007)
66. The 21st Symposium of the Protein Society, Boston, MA (July 2007)
67. Brandeis University, Waltham, MA (July 2007)
68. International Symposium on From Structure to Systems Based on Drug Discovery, Beijing, China (August 2007)
69. University of Colorado Health Sciences Center, Aurora, CO (October 2007)
70. ORFeome Meeting, Dana-Farber Cancer Institute, Boston, MA (October 2007)
71. Colorado State University, Fort Collins, CO (November 2007)
72. Keystone Meeting: Regulatory Mechanisms in Eukaryotic Transcription, Keystone, CO (February 2008)
73. Stowers Institute for Medical Research, Kansas City, MO (February 2008)
74. Johns Hopkins University, Baltimore, MA (May 2008)
75. Ontario Institute for Cancer Research, Toronto, Ontario, Canada (May 2008)
76. MRC-LMB Symposium (Invitation by Graduate Students), Cambridge, England (May 2008)
77. Molecular Cell Biology, Gordon Research Conferences, New London, NH (June 2008)
78. Transcriptional Regulation During Cell Growth, Differentiation and Development, FASEB Summer Research Conference, Snowmass Village, CO (June 2008)
79. Yeast Chromosome Structure, Replication and Segregation, FASEB Summer Research Conference, Carefree, AZ (June 2008)
80. 16th Annual International Conference: Intelligent Systems for Molecular Biology (ISMB), Toronto, Ontario, Canada (July 2008)
81. Model Organism Symposium Series (Invitation by Graduate Students), Case Western Reserve University, Cleveland, OH (September 2008)
82. Case Western Reserve University, Cleveland, OH (September 2008)
83. University of Texas, MD Anderson Cancer Center, Houston, Texas (September 2008)
84. The Netherlands Cancer Institute, Amsterdam, The Netherlands (October 2008)
85. Leiden University Medical Center (LUMC), Leiden, The Netherlands (October 2008)
86. University of California-Davis, Davis, CA (October 2008)
87. Plant Gene Expression Center, University of California, Berkeley, CA (November 2008)
88. Columbia University, New York, NY (November 2008)
89. 4th EMBO Conference: From Functional Genomics to Systems Biology, EMBL Heidelberg, Germany (November 2008)

90. Irving Cancer Research Center, Columbia University, New York, NY (January 2009)
91. UCLA Symposium: Next Generation Genomic Technologies: Data Acquisition and Analysis, Los Angeles, CA (February 2009)
92. Cold Spring Harbor Meeting, Systems Biology: Networks, Cold Spring Harbor, NY (March 2009)
93. J. David Gladstone Institutes, San Francisco, CA (April 2009)
94. Yale University, New Haven, CT (April 2009)
95. German Symposium in Systems Biology, Heidelberg, Germany (May 2009)
96. Proteomic Characterization of Macromolecular Complexes involved in DNA Metabolism, Trieste, Italy (May 2009)
97. Multi-Scale Modeling of Host-Pathogen Interactions, University of Pittsburgh, Pittsburgh, PA (June 2009)
98. NIH AIDS Structural Biology Centers, Washington, DC (June 2009)
99. FASEB Conference: Epigenetics, Chromatin and Transcription, Snowmass Village, CO (July 2009)
100. iBioseminars, University of California-San Francisco, San Francisco, CA (July 2009)
101. Buck Institute for Age Research, Marin, CA (July 2009)
102. Genentech, South San Francisco, CA (August 2009)
103. MBI Workshop on Network Biology, Ohio State University, Columbus, OH (September 2009)
104. University of Regina, Regina, Saskatchewan, Canada (October 2009)
105. APSS (Aids Program South Saskatchewan) Conference: The Changing Face of Aids, Regina, Saskatchewan, Canada (October 2009)
106. University of California-San Diego, San Diego, California (October 2009)
107. University of California-Davis, Davis, California (October 2009)
108. 40th Anniversary of Department of Molecular Genetics, University of Toronto, Toronto, Ontario, Canada (October 2009)
109. M. D. Anderson Cancer Center, Houston, Texas (October 2009)
110. Stanford University, Palo Alto, CA (November 2009)
111. RECOMB Regulatory Genomics, Systems Biology and Dream4, Broad Institute, Boston, MA (December 2009)
112. Keystone Meeting: Structural Genomics: Expanding the Horizons of Structural Biology, Breckenridge, CO (January 2010)
113. India-Bay Area TB Summit, Delhi, India (January 2010)
114. Boehringer Ingelheim Lecture, University of British Columbia, Vancouver, BC (January 2010)
115. University of Minnesota, Minneapolis, MN (February 2010)
116. Keystone Meeting: Biomolecular Interaction Networks: Function and Disease, Quebec City, Quebec (March 2010)
117. NIH National Technology Centers for Networks and Pathways, Washington, DC (March 2010)
118. NIH, Washington, DC (March 2010)
119. FABS (French American Biotechnology Symposium), Salk Institute, La Jolla, CA (March 2010)
120. SBDR (Structural Cell Biology of DNA Repair Machines) Workshop, Berkeley, CA (March 2010)
121. Boehringer Ingelheim, Montreal, Canada (April 2010)
122. Network Biology and Cancer Symposium, The Institute of Cancer Research, London, England (May 2010)
123. Pittsburgh Center for HIV Protein Interactions, University of Pittsburgh School of Medicine, Pittsburgh, PA (May 2010)
124. San Diego Consortium Systems Biology Meeting, University of California-San Diego, San Diego, CA (May 2010)
125. EMBO Conference: Gene Transcription in Yeast, St. Feliu, Spain (June 2010)

126. NIH AIDS Structural Biology Centers, Washington, DC (June 2010)
127. FASEB Meeting: Yeast Chromosome Structure, Replication and Segregation, Carefree, AZ (August 2010)
128. Department of Systems and Chemical Biology Retreat, Stanford, Keynote Presentation, Lake Tahoe, CA (September 2010)
129. The Center for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, BC, Canada (September 2010)
130. ASBMB Meeting: Transcriptional Regulation by Chromatin and RNA Polymerase II, Lake Tahoe, CA (October 2010)
131. Zomes VI, Expanding the PCI Family Beyond Proteasome, CSN and eIF3 Complexes, Safed, Israel (October 2010)
132. Weizmann Institute, Rehovot, Israel (October 2010)
133. University of Pittsburgh, Pittsburgh, PA (October 2010)
134. Harvard Medical School, Boston, MA (October 2010)
135. Fred Hutchinson Cancer Research Center, Seattle, WA (December 2010)
136. University of California-Riverside, Riverside, CA (January 2011)
137. Keystone Meeting: The Evolution of Protein Phosphorylation, Keystone, Colorado (January 2011)
138. Vaccine and Gene Therapy Institute (VGTI), Portland, OR (February 2011)
139. UCSF Cancer Center, San Francisco, CA (February 2011)
140. Gladstone Institutes, San Francisco, CA (March 2011)
141. University of Alberta, Edmonton, Alberta, Canada (March 2011)
142. NIH AIDS Structural Biology Centers, Washington, DC (March 2011)
143. BIOTEC Forum, System Biology of Cellular Regulation, AB of the EU 7th Framework Integrated Project, SyBoSS, Dresden, Germany (May 2011)
144. University of Utah, Salt Lake City, UT. (May 2011)
145. Bay Area Virology Symposium, Berkeley, CA (May 2011)
146. Cold Spring Harbor Retrovirology Meeting, Cold Spring Harbor, NY (2011)
147. University of Texas-Southwestern, Dallas, TX. (invited speaker) (June 2011)
148. University of Toronto, Toronto, Ontario, Canada (September 2011)
149. Symposium: Accelerating Predictive Drug Development Through Quantitative Pharmacology UC San Francisco, (July 2011)
150. Brandeis University, Boston, MA. (January 2012, upcoming)
151. Keystone Symposium on High-Throughput Structural Biology and Structural Biology of Cellular Processes: From Atoms to Cells, Keystone, CO. (January 2012) (upcoming)
152. Lorne Genome Conference; Melbourne, Australia (2012, upcoming)
153. Biophysical Society, San Diego, CA (2012, upcoming)
154. U.S. Human Proteome Organization Annual Meeting, San Francisco, CA (2012, upcoming)
155. Harvard University, Boston, MA (March 2012) upcoming
156. American Society for Biochemistry and Molecular Biology San Diego, (2012, upcoming)
157. Symposium: Integrative Network Biology and Cancer 3.0, Technical University of Denmark; Elsinore, DK (May, 2012, upcoming)
158. EMBO Conference on Gene Transcription in Yeast 2012, St. Feliu, Spain (May 2012, upcoming)
159. 6th Biennial EMBL/EMBO Symposium, 'From Functional Genomics to Systems Biology', Heidelberg, Germany (November 2012) (upcoming)

PUBLICATIONS

1. **Krogan NJ**, Zaharik ML, Neuhard J, Kelln RA. A combination of three mutations, *dcd*, *pyrH*, and *cdd*, establishes thymidine (Deoxyuridine) auxotrophy in *thyA*⁺ strains of *Salmonella typhimurium*. *J Bacteriol.* 1998 Nov;180(22):5891-5. [PMCID: PMC107662](#)
2. Miller T*, **Krogan NJ***, Dover J, Erdjument-Bromage H, Tempst P, Johnston M, Greenblatt JF, Shilatifard A (* equal contribution). COMPASS: a complex of proteins associated with a trithorax-related SET domain protein. *Proc Natl Acad Sci U S A.* 2001 Nov 6;98(23):12902-7. [PMCID: PMC60797](#)
3. **Krogan NJ**, Greenblatt JF. Characterization of a six-subunit holo-elongator complex required for the regulated expression of a group of genes in *Saccharomyces cerevisiae*. *Mol Cell Biol.* 2001 Dec;21(23):8203-12. [PMCID: PMC99985](#)
4. **Krogan NJ**, Dover J, Khorrani S, Greenblatt JF, Schneider J, Johnston M, Shilatifard A. COMPASS, a histone H3 (Lysine 4) methyltransferase required for telomeric silencing of gene expression. *J Biol Chem.* 2002 Mar 29;277(13):10753-5. [PMID: 11805083](#)
5. **Krogan NJ**, Kim M, Ahn SH, Zhong G, Kobor MS, Cagney G, Emili A, Shilatifard A, Buratowski S, Greenblatt JF. RNA polymerase II elongation factors of *Saccharomyces cerevisiae*: a targeted proteomics approach. *Mol Cell Biol.* 2002 Oct;22(20):6979-92. [PMCID: PMC139818](#)
6. Wood A*, **Krogan NJ***, Dover J, Schneider J, Heidt J, Boateng MA, Dean K, Golshani A, Zhang Y, Greenblatt JF, Johnston M, Shilatifard A. Bre1, an E3 ubiquitin ligase required for recruitment and substrate selection of Rad6 at a promoter (* equal contribution). *Mol Cell.* 2003 Jan;11(1):267-74. [PMID: 12535539](#)
7. **Krogan NJ**, Dover J, Wood A, Schneider J, Heidt J, Boateng MA, Dean K, Ryan OW, Golshani A, Johnston M, Greenblatt JF, Shilatifard A. The Paf1 complex is required for histone H3 methylation by COMPASS and Dot1p: linking transcriptional elongation to histone methylation. *Mol Cell.* 2003 Mar;11(3):721-9. [PMID: 12667454](#)
8. **Krogan NJ**, Kim M, Tong A, Golshani A, Cagney G, Canadien V, Richards DP, Beattie BK, Emili A, Boone C, Shilatifard A, Buratowski S, Greenblatt J. Methylation of histone H3 by Set2 in *Saccharomyces cerevisiae* is linked to transcriptional elongation by RNA polymerase II. *Mol Cell Biol.* 2003 Jun;23(12):4207-18. [PMCID: PMC427527](#)
9. Peng WT*, Robinson MD*, Mnaimneh S*, **Krogan NJ***, Cagney G, Morris Q, Davierwala AP, Grigull J, Yang X, Zhang W, Mitsakakis N, Ryan OW, Datta N, Jovic V, Pal C, Canadien V, Richards D, Beattie B, Wu LF, Altschuler SJ, Rowley S, Frey BJ, Emili A, Greenblatt JF, Hughes TR (* equal contribution). A panoramic view of yeast noncoding RNA processing. *Cell.* 2003 Jun 27;113(7):919-33. [PMID: 12837249](#)
10. Jansen R, Yu H, Greenbaum D, Kluger Y, **Krogan NJ**, Chung S, Emili A, Snyder M, Greenblatt JF, Gerstein M. A Bayesian networks approach for predicting protein-protein interactions from genomic data. *Science.* 2003 Oct 17;302(5644):449-53. [PMID: 14564010](#)
11. **Krogan NJ**, Keogh MC, Datta N, Sawa C, Ryan OW, Ding H, Haw RA, Pootoolal J, Tong A, Canadien V, Richards DP, Wu X, Emili A, Hughes TR, Buratowski S, Greenblatt JF. A Snf2 family ATPase complex required for recruitment of the histone H2A variant Htz1. *Mol Cell.* 2003 Dec;12(6):1565-76. [PMID: 14690608](#)
12. Baetz KK, **Krogan NJ**, Emili A, Greenblatt J, Hieter P. The *ctf13-30/CTF13* genomic haploinsufficiency modifier screen identifies the yeast chromatin remodeling complex RSC, which is required for the establishment of sister chromatid cohesion. *Mol Cell Biol.* 2004 Feb;24(3):1232-44. [PMCID: PMC321452](#)
13. Kim M, Ahn SH, **Krogan NJ**, Greenblatt JF, Buratowski S. Transitions in RNA polymerase II elongation complexes at the 3' ends of genes. *EMBO J.* 2004 Jan 28;23(2):354-64. [PMCID: PMC1271760](#)
14. **Krogan NJ**, Peng WT, Cagney G, Robinson MD, Haw R, Zhong G, Guo X, Zhang X, Canadien V, Richards DP, Beattie BK, Lalev A, Zhang W, Davierwala AP, Mnaimneh S, Starostine A, Tikuisis AP, Grigull J, Datta N, Bray JE, Hughes TR, Emili A, Greenblatt JF.

- High-definition macromolecular composition of yeast RNA-processing complexes. *Mol Cell*. 2004 Jan 30;13(2):225-39. [PMID: 14759368](#)
15. Tong AH, Lesage G, Bader GD, Ding H, Xu H, Xin X, Young J, Berriz GF, Brost RL, Chang M, Chen Y, Cheng X, Chua G, Friesen H, Goldberg DS, Haynes J, Humphries C, He G, Hussein S, Ke L, **Krogan N**, Li Z, Levinson JN, Lu H, Menard P, Munyana C, Parsons AB, Ryan O, Tonikian R, Roberts T, Sdicu AM, Shapiro J, Sheikh B, Suter B, Wong SL, Zhang LV, Zhu H, Burd CG, Munro S, Sander C, Rine J, Greenblatt J, Peter M, Bretscher A, Bell G, Roth FP, Brown GW, Andrews B, Bussey H, Boone C. Global mapping of the yeast genetic interaction network. *Science*. 2004 Feb 6;303(5659):808-13. [PMID: 14764870](#)
 16. Golshani A, **Krogan NJ**, Xu J, Pacal M, Yang XC, Ivanov I, Providenti MA, Ganoza MC, Ivanov IG, AbouHaidar MG. *Escherichia coli* mRNAs with strong Shine/Dalgarno sequences also contain 5' end sequences complementary to domain # 17 on the 16S ribosomal RNA. *Biochem Biophys Res Commun*. 2004 Apr 16;316(4):978-83. [PMID: 15044080](#)
 17. Peng WT, **Krogan NJ**, Richards DP, Greenblatt JF, Hughes TR. ESF1 is required for 18S rRNA synthesis in *Saccharomyces cerevisiae*. *Nucleic Acids Res*. 2004 Mar 31;32(6):1993-9. [PMCID: PMC390369](#)
 18. Sawa C, Nedeia E, **Krogan N**, Wada T, Handa H, Greenblatt J, Buratowski S. Bromodomain factor 1 (Bdf1) is phosphorylated by protein kinase CK2. *Mol Cell Biol*. 2004 Jun;24(11):4734-42. [PMCID: PMC416403](#)
 19. Mnaimneh S, Davierwala AP, Haynes J, Moffat J, Peng WT, Zhang W, Yang X, Pootoolal J, Chua G, Lopez A, Trochesset M, Morse D, **Krogan NJ**, Hiley SL, Li Z, Morris Q, Grigull J, Mitsakakis N, Roberts CJ, Greenblatt JF, Boone C, Kaiser CA, Andrews BJ, Hughes TR. Exploration of essential gene functions via titratable promoter alleles. *Cell*. 2004 Jul 9;118(1):31-44. [PMID: 15242642](#)
 20. **Krogan NJ**, Baetz K, Keogh MC, Datta N, Sawa C, Kwok TC, Thompson NJ, Davey MG, Pootoolal J, Hughes TR, Emili A, Buratowski S, Hieter P, Greenblatt JF. Regulation of chromosome stability by the histone H2A variant Htz1, the Swr1 chromatin remodeling complex, and the histone acetyltransferase NuA4. *Proc Natl Acad Sci U S A*. 2004 Sep 14;101(37):13513-8. [PMCID: PMC518788](#)
 21. Kim M, **Krogan NJ**, Vasiljeva L, Rando OJ, Nedeia E, Greenblatt JF, Buratowski S. The yeast Rat1 exonuclease promotes transcription termination by RNA polymerase II. *Nature*. 2004 Nov 25;432(7016):517-22. [PMID: 15565157](#)
 22. Zhang W, Morris QD, Chang R, Shai O, Bakowski MA, Mitsakakis N, Mohammad N, Robinson MD, Zirngibl R, Somogyi E, Laurin N, Eftekharpour E, Sat E, Grigull J, Pan Q, Peng WT, **Krogan N**, Greenblatt J, Fehlings M, van der Kooy D, Aubin J, Bruneau BG, Rossant J, Blencowe BJ, Frey BJ, Hughes TR. The functional landscape of mouse gene expression. *J Biol*. 2004;3(5):21. [PMCID: PMC549719](#)
 23. Morrison AJ, Highland J, **Krogan NJ**, Arbel-Eden A, Greenblatt JF, Haber JE, Shen X. INO80 and gamma-H2AX interaction links ATP-dependent chromatin remodeling to DNA damage repair. *Cell*. 2004 Dec 17;119(6):767-75. [PMID: 15607974](#)
 24. **Krogan NJ**, Lam MH, Fillingham J, Keogh MC, Gebbia M, Li J, Datta N, Cagney G, Buratowski S, Emili A, Greenblatt JF. Proteasome involvement in the repair of DNA double-strand breaks. *Mol Cell*. 2004 Dec 22;16(6):1027-34. [PMID: 15610744](#)
 25. Xiao T, Kao CF, **Krogan NJ**, Sun ZW, Greenblatt JF, Osley MA, Strahl BD. Histone H2B ubiquitylation is associated with elongating RNA polymerase II. *Mol Cell Biol*. 2005 Jan;25(2):637-51. [PMCID: PMC543430](#)
 26. Kong SE, Kobor MS, **Krogan NJ**, Somesh BP, Søgaard TM, Greenblatt JF, Svejstrup JQ. Interaction of Fcp1 phosphatase with elongating RNA polymerase II holoenzyme, enzymatic mechanism of action, and genetic interaction with elongator. *J Biol Chem*. 2005 Feb 11;280(6):4299-306. [PMID: 15563457](#)

27. Ingvarsdottir K*, **Krogan NJ***, Emre NC, Wyce A, Thompson NJ, Emili A, Hughes TR, Greenblatt JF, Berger SL (* equal contribution). H2B ubiquitin protease Ubp8 and Sgf11 constitute a discrete functional module within the *Saccharomyces cerevisiae* SAGA complex. *Mol Cell Biol.* 2005 Feb;25(3):1162-72. [PMCID: PMC544016](#)
28. Butland G, Peregrín-Alvarez JM, Li J, Yang W, Yang X, Canadien V, Starostine A, Richards D, Beattie B, **Krogan N**, Davey M, Parkinson J, Greenblatt J, Emili A. Interaction network containing conserved and essential protein complexes in *Escherichia coli*. *Nature.* 2005 Feb 3;433(7025):531-7. [PMID: 15690043](#)
29. Savchenko A, **Krogan N**, Cort JR, Evdokimova E, Lew JM, Yee AA, Sánchez-Pulido L, Andrade MA, Bochkarev A, Watson JD, Kennedy MA, Greenblatt J, Hughes T, Arrowsmith CH, Rommens JM, Edwards AM. The Shwachman-Bodian-Diamond syndrome protein family is involved in RNA metabolism. *J Biol Chem.* 2005 May 13;280(19):19213-20. [PMID: 15701634](#)
30. Emre NC, Ingvarsdottir K, Wyce A, Wood A, **Krogan NJ**, Henry KW, Li K, Marmorstein R, Greenblatt JF, Shilatifard A, Berger SL. Maintenance of low histone ubiquitylation by Ubp10 correlates with telomere-proximal Sir2 association and gene silencing. *Mol Cell.* 2005 Feb 18;17(4):585-94. [PMID: 15721261](#)
31. Zhao R, Davey M, Hsu YC, Kaplanek P, Tong A, Parsons AB, **Krogan N**, Cagney G, Mai D, Greenblatt J, Boone C, Emili A, Houry WA. Navigating the chaperone network: an integrative map of physical and genetic interactions mediated by the hsp90 chaperone. *Cell.* 2005 Mar 11;120(5):715-27. [PMID: 15766533](#)
32. Hoang T, Peng WT, Vanrobays E, **Krogan N**, Hiley S, Beyer AL, Osheim YN, Greenblatt J, Hughes TR, Lafontaine DL. Esf2p, a U3-associated factor required for small-subunit processome assembly and compaction. *Mol Cell Biol.* 2005 Jul;25(13):5523-34. [PMCID: PMC1156982](#)
33. Larabee RN, **Krogan NJ**, Xiao T, Shibata Y, Hughes TR, Greenblatt JF, Strahl BD. BUR kinase selectively regulates H3 K4 trimethylation and H2B ubiquitylation through recruitment of the PAF elongation complex. *Curr Biol.* 2005 Aug 23;15(16):1487-93. [PMID: 16040246](#)
34. Prather D, **Krogan NJ**, Emili A, Greenblatt JF, Winston F. Identification and characterization of Elf1, a conserved transcription elongation factor in *Saccharomyces cerevisiae*. *Mol Cell Biol.* 2005 Nov;25(22):10122-35. [PMCID: PMC1280281](#)
35. Schuldiner M, Collins SR, Thompson NJ, Denic V, Bhamidipati A, Punna T, Ihmels J, Andrews B, Boone C, Greenblatt JF, Weissman JS, **Krogan NJ**. Exploration of the function and organization of the yeast early secretory pathway through an epistatic miniarray profile. *Cell.* 2005 Nov 4;123(3):507-19. [PMID: 16269340](#)
36. Keogh MC, Kurdistani SK, Morris SA, Ahn SH, Podolny V, Collins SR, Schuldiner M, Chin K, Punna T, Thompson NJ, Boone C, Emili A, Weissman JS, Hughes TR, Strahl BD, Grunstein M, Greenblatt JF, Buratowski S, **Krogan NJ**. Cotranscriptional set2 methylation of histone H3 lysine 36 recruits a repressive Rpd3 complex. *Cell.* 2005 Nov 18;123(4):593-605. [PMID: 16286008](#)
37. Keogh MC, Kim JA, Downey M, Fillingham J, Chowdhury D, Harrison JC, Onishi M, Datta N, Galicia S, Emili A, Lieberman J, Shen X, Buratowski S, Haber JE, Durocher D, Greenblatt JF, **Krogan NJ**. A phosphatase complex that dephosphorylates gammaH2AX regulates DNA damage checkpoint recovery. *Nature.* 2006 Jan 26;439(7075):497-501. [PMID: 16299494](#)
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NON-PEER REVIEWED PUBLICATIONS AND OTHER CREATIVE ACTIVITIES:

REVIEW ARTICLES

1. Fillingham J, Keogh MC, **Krogan NJ**. GammaH2AX and its role in DNA double-strand break repair. *Biochem Cell Biol*. 2006 Aug;84(4):568-77. Review. [PMID: 16936829](#)