

Stanford



Stanley N. Cohen, MD

Kwoh-Ting Li Professor in the School of Medicine, Professor of Genetics and of Medicine

CONTACT INFORMATION

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Bio

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Professor, Medicine - Operations
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Professor of Medicine, School of Medicine, (1975- present)
- Professor of Genetics, School of Medicine, (1977- present)
- Kwoh-Ting Li Professor, School of Medicine, (1993- present)

PROFESSIONAL EDUCATION

- M.D., University of Pennsylvania , Medicine (1960)
- B.S., Rutgers University , Biological Sciences (1956)

LINKS

- S.N.Cohen Lab Web Site: <http://sncohenlab.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Expansion of gene regions containing nucleotide repeats (NRs) has a causal role in a variety of inherited degenerative neurological diseases, including Huntington's Disease, certain spinocerebellar ataxias and muscular dystrophies, and some types of amyotrophic lateral sclerosis and frontotemporal dementia. A major area of investigation in our lab is study of mechanisms that selectively enable transcription through expanded NR regions in human genes. We also study the actions of

abnormal mRNAs and proteins generated by such repeats, and efforts in the lab are aimed at treating these diseases by targeting expression of the abnormal genes. We also investigate mechanisms that underlie the occurrence of NR expansions.

Certain of our investigations are aimed at elucidating the signals that govern RNA decay. We use *E. coli* and *Streptomyces* species to investigate the mechanism of action of specific ribonucleases, related proteins, small non-coding RNAs, and to identify cellular events and proteins that regulate the actions of these molecules.

Our lab has long been interested in the evolution and dissemination of antibiotic resistance, and currently, we continue to pursue these interests by investigating the biology underlying the ability of bacteria to adapt non-mutationally to antibiotic exposure and other environmental stresses.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Cancer Biology (Phd Program)
- Genetics (Phd Program)

Publications

PUBLICATIONS

- **Effects on murine behavior and lifespan of selectively decreasing expression of mutant huntingtin allele by *supt4h* knockdown.** *PLoS genetics*
Cheng, H., Chern, Y., Chen, I., Liu, C., Li, S., Chun, S. J., Rigo, F., Bennett, C. F., Deng, N., Feng, Y., Lin, C., Yan, Y., Cohen, et al
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- **Reversible Antibiotic Tolerance Induced in *Staphylococcus aureus* by Concurrent Drug Exposure.** *mBio*
Haaber, J., Friberg, C., McCreary, M., Lin, R., Cohen, S. N., Ingmer, H.
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- **Identification of agents effective against multiple toxins and viruses by host-oriented cell targeting.** *Scientific reports*
Zilbermintz, L., Leonardi, W., Jeong, S., Sjodt, M., McComb, R., Ho, C. C., Retterer, C., Gharaibeh, D., Zamani, R., Soloveva, V., Bavari, S., Levitin, A., West, et al
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- **Bidirectional effect of Wnt signaling antagonist DKK1 on the modulation of anthrax toxin uptake.** *Science China. Life sciences*
Qian, L., Cai, C., Yuan, P., Jeong, S., Yang, X., Dealmeida, V., Ernst, J., Costa, M., Cohen, S. N., Wei, W.
2014; 57 (5): 469-481
- **Calpain-dependent cytoskeletal rearrangement exploited for anthrax toxin endocytosis.** *Proceedings of the National Academy of Sciences of the United States of America*
Jeong, S., Martchenko, M., Cohen, S. N.
2013; 110 (42): E4007-15
- **Calpain-dependent cytoskeletal rearrangement exploited for anthrax toxin endocytosis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jeong, S., Martchenko, M., Cohen, S. N.
2013; 110 (42): E4007-E4015
- **DNA cloning: A personal view after 40 years** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Cohen, S. N.
2013; 110 (39): 15521-15529
- **Upregulation of the Host SLC11A1 Gene by *Clostridium difficile* Toxin B Facilitates Glucosylation of Rho GTPases and Enhances Toxin Lethality** *INFECTION AND IMMUNITY*
Feng, Y., Cohen, S. N.
2013; 81 (8): 2724-2732

- **Nutrient Dependence of RNase E Essentiality in Escherichia coli** *JOURNAL OF BACTERIOLOGY*
Tamura, M., Moore, C. J., Cohen, S. N.
2013; 195 (6): 1133-1141
- **Correlation analyses of clinical and molecular findings identify candidate biological pathways in systemic juvenile idiopathic arthritis** *BMC MEDICINE*
Ling, X. B., Macaubas, C., Alexander, H. C., Wen, Q., Chen, E., Peng, S., Sun, Y., Deshpande, C., Pan, K., Lin, R., Lih, C., Chang, S. P., Lee, et al
2012; 10
- **Ribonuclease E Modulation of the Bacterial SOS Response** *PLOS ONE*
Manasherob, R., Miller, C., Kim, K., Cohen, S. N.
2012; 7 (6)
- **Second-Site Suppression of RNase E Essentiality by Mutation of the deaD RNA Helicase in Escherichia coli** *JOURNAL OF BACTERIOLOGY*
Tamura, M., Kers, J. A., Cohen, S. N.
2012; 194 (8): 1919-1926
- **Formation and release of arrestin domain-containing protein 1-mediated microvesicles (ARMMs) at plasma membrane by recruitment of TSG101 protein** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nabhan, J. F., Hu, R., Oh, R. S., Cohen, S. N., Lu, Q.
2012; 109 (11): 4146-4151
- **Human genetic variation altering anthrax toxin sensitivity** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Martchenko, M., Candille, S. I., Tang, H., Cohen, S. N.
2012; 109 (8): 2972-2977
- **Spt4 Is Selectively Required for Transcription of Extended Trinucleotide Repeats** *CELL*
Liu, C., Chang, C., Chern, Y., Wang, T., Hsieh, W., Shen, W., Chang, C., Chu, I., Deng, N., Cohen, S. N., Cheng, T.
2012; 148 (4): 690-701
- **Improved Control of Tuberculosis and Activation of Macrophages in Mice Lacking Protein Kinase R** *PLOS ONE*
Wu, K., Koo, J., Jiang, X., Chen, R., Cohen, S. N., Nathan, C.
2012; 7 (2)
- **Upregulation of RNase E activity by mutation of a site that uncompetitively interferes with RNA binding** *RNA BIOLOGY*
Go, H., Moore, C. J., Lee, M., Shin, E., Jeon, C. O., Cha, C., Han, S. H., Kim, S., Lee, S., Lee, Y., Ha, N., Kim, Y., Cohen, et al
2011; 8 (6): 1022-1034
- **Regulation of transcription of hypoxia-inducible factor-1 alpha (HIF-1 alpha) by heat shock factors HSF2 and HSF4** *ONCOGENE*
Chen, R., Liliental, J. E., Kowalski, P. E., Lu, Q., Cohen, S. N.
2011; 30 (22): 2570-2580
- **Heterodimeric integrin complexes containing beta 1-integrin promote internalization and lethality of anthrax toxin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Martchenko, M., Jeong, S., Cohen, S. N.
2010; 107 (35): 15583-15588
- **Putative TetR Family Transcriptional Regulator SCO1712 Encodes an Antibiotic Downregulator in Streptomyces coelicolor** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Lee, H., Huang, J., Im, J., Kim, S., Noh, J., Cohen, S. N., Kim, E.
2010; 76 (9): 3039-3043
- **Regulation of morphological differentiation in S-coelicolor by RNase III (AbsB) cleavage of mRNA encoding the AdpA transcription factor** *MOLECULAR MICROBIOLOGY*
Xu, W., Huang, J., Lin, R., Shi, J., Cohen, S. N.
2010; 75 (3): 781-791
- **A Functional Mouse Retroposed Gene Rps23r1 Reduces Alzheimer's beta-Amyloid Levels and Tau Phosphorylation** *NEURON*
Zhang, Y., Liu, S., Zhang, X., Li, W., Chen, Y., Huang, X., Sun, L., Luo, W., Netzer, W. J., Threadgill, R., Wiegand, G., Wang, R., Cohen, et al
2009; 64 (3): 328-340

- **Identification of Cellular Genes Affecting the Infectivity of Foot-and-Mouth Disease Virus** *JOURNAL OF VIROLOGY*
Piccone, M. E., Feng, Y., Chang, A. C., Mosseri, R., Lu, Q., Kutish, G. F., Lu, Z., Burrage, T. G., Gooch, C., Rock, D. L., Cohen, S. N.
2009; 83 (13): 6681-6688
- **Microbial Drug Resistance: An Old Problem in Need of New Solutions.** *Microbial Evolution and Co-Adaptation: A Tribute to the Life and Scientific Legacies of Joshua Lederberg.* (D.A. Relman, M.A. Hamburg, E.R. Choffnes, and A. Mack, eds). Washington, DC: National Academies Press
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2009: 173-180
- **Ymdb: a stress-responsive ribonuclease-binding regulator of E. coli RNase III activity** *GENES & DEVELOPMENT*
Kim, K., Manasherob, R., Cohen, S. N.
2008; 22 (24): 3497-3508
- **Inhibition of HIV Budding by a Genetically Selected Cyclic Peptide Targeting the Gag-TSG101 Interaction** *ACS CHEMICAL BIOLOGY*
Tavassoli, A., Lu, Q., Gam, J., Pan, H., Benkovic, S. J., Cohen, S. N.
2008; 3 (12): 757-764
- **Autoregulation of AbsB (RNase III) expression in Streptomyces coelicolor by endoribonucleolytic cleavage of absB operon transcripts** *JOURNAL OF BACTERIOLOGY*
Xu, W., Huang, J., Cohen, S. N.
2008; 190 (15): 5526-5530
- **Identification of amino acid residues in the catalytic domain of RNase E essential for survival of Escherichia coli: Functional analysis of DNase I subdomain** *GENETICS*
Shin, E., Go, H., Yeom, J., Won, M., Hanj, S. H., Bae, J., Han, S. H., Han, K., Lee, Y., Ha, N., Moore, C. J., Sohlberg, B., Cohen, et al
2008; 179 (4): 1871-1879
- **Genomic expression profiling of TNF-alpha-treated BDC2.5 diabetogenic CD4(+) T cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lee, L., Lih, C., Huang, C., Cao, T., Cohen, S. N., McDevitt, H. O.
2008; 105 (29): 10107-10112
- **Suppression of human tumor cell proliferation by Smurf2-induced senescence** *JOURNAL OF CELLULAR PHYSIOLOGY*
Zhang, H., Teng, Y., Kong, Y., Kowalski, P. E., Cohen, S. N.
2008; 215 (3): 613-620
- **Glioma cells on the run - the migratory transcriptome of 10 human glioma cell lines** *BMC GENOMICS*
Demuth, T., Rennert, J. L., Hoelzinger, D. B., Reavie, L. B., Nakada, M., Beaudry, C., Nakada, S., Anderson, E. M., Henrichs, A. N., McDonough, W. S., Holz, D., Joy, A., Lin, et al
2008; 9
- **Interspecies DNA microarray analysis identifies WblA as a pleiotropic down-regulator of antibiotic biosynthesis in Streptomyces** *JOURNAL OF BACTERIOLOGY*
Kang, S., Huang, J., Lee, H., Hur, Y., Cohen, S. N., Kim, E.
2007; 189 (11): 4315-4319
- **Characterization of a large, stable, high-copy-number Streptomyces plasmid that requires stability and transfer functions for heterologous polyketide overproduction** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Fong, R., Hu, Z., Hutchinson, C. R., Huang, J., Cohen, S., Kao, C.
2007; 73 (4): 1296-1307
- **Human MDM2 isoforms translated differentially on constitutive versus p53-regulated transcripts have distinct functions in the p53/MDM2 and TSG101/MDM2 feedback control loops** *MOLECULAR AND CELLULAR BIOLOGY*
Cheng, T., Cohen, S. N.
2007; 27 (1): 111-119
- **Retention of core catalytic functions by a conserved minimal ribonuclease E peptide that lacks the domain required for tetramer formation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Caruthers, J. M., Feng, Y., McKay, D. B., Cohen, S. N.
2006; 281 (37): 27046-27051

- **rag Genes: Novel components of the RamR regulon that trigger morphological differentiation in *Streptomyces coelicolor*** *MOLECULAR MICROBIOLOGY*
Paolo, S. S., Huang, J., Cohen, S. N., Thompson, C. J.
2006; 61 (5): 1167-1186
- **Phenotype-based identification of host genes required for replication of African swine fever virus** *JOURNAL OF VIROLOGY*
Chang, A. C., Zsak, L., Feng, Y., Mosseri, R., Lu, Q., Kowalski, P., Zsak, A., Burrage, T. G., Neilan, J. G., Kutish, G. F., Lu, Z., Laegreid, W., Rock, et al
2006; 80 (17): 8705-8717
- **Txr1: a transcriptional regulator of thrombospondin-1 that modulates cellular sensitivity to taxanes** *GENES & DEVELOPMENT*
Lih, C., Wei, W., Cohen, S. N.
2006; 20 (15): 2082-2095
- **Differential modulation of E-coli mRNA abundance by inhibitory proteins that alter the composition of the degradosome** *MOLECULAR MICROBIOLOGY*
Gao, J., Lee, K., Zhao, M., Qiu, J., Zhan, X., Saxena, A., Moore, C. J., Cohen, S. N., Georgiou, G.
2006; 61 (2): 394-406
- **RNase E maintenance of proper FtsZ/FtsA ratio required for nonfilamentous growth of *Escherichia coli* cells but not for colony-forming ability** *JOURNAL OF BACTERIOLOGY*
Tamura, M., Lee, K., Miller, C. A., Moore, C. J., Shirako, Y., Kobayashi, M., Cohen, S. N.
2006; 188 (14): 5145-5152
- **The LDL receptor-related protein LRP6 mediates internalization and lethality of anthrax toxin** *CELL*
Wei, W., Lu, Q., Chaudry, G. J., Leppla, S. H., Cohen, S. N.
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- **Cross-regulation among disparate antibiotic biosynthetic pathways of *Streptomyces coelicolor*** *MOLECULAR MICROBIOLOGY*
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2005; 58 (5): 1276-1287
- **Effects of threshold choice on biological conclusions reached during analysis of gene expression by DNA microarrays** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Pan, K. H., Lih, C. J., Cohen, S. N.
2005; 102 (25): 8961-8965
- **Regional organization of gene expression in *Streptomyces coelicolor*** *GENE*
Karoonuthaisiri, N., Weaver, D., Huang, J. Q., Cohen, S. N., Kao, C. M.
2005; 353 (1): 53-66
- **An integrated data analysis approach to characterize genes highly expressed in hepatocellular carcinoma** *ONCOGENE*
Patil, M. A., Chua, M. S., Pan, K. H., Lin, R., Lih, C. J., Cheung, S. T., Ho, C., Li, R., Fan, S. T., Cohen, S. N., Chen, X., So, S.
2005; 24 (23): 3737-3747
- **Smurf2 up-regulation activates telomere-dependent senescence** *GENES & DEVELOPMENT*
Zhang, H., Cohen, S. N.
2004; 18 (24): 3028-3040
- **EST-based genome-wide gene inactivation identifies ARAP3 as a host protein affecting cellular susceptibility to anthrax toxin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lu, Q., Wei, W. S., Kowalski, P. E., Chang, A. C., Cohen, S. N.
2004; 101 (49): 17246-17251
- **Reverse transcriptase activity innate to DNA polymerase I and DNA topoisomerase I proteins of *Streptomyces* telomere complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bao, K., Cohen, S. N.
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- **SOS response induction by beta-lactams and bacterial defense against antibiotic lethality** *SCIENCE*
Miller, C., Thomsen, L. E., Gaggero, C., Mosseri, R., Ingmer, H., Cohen, S. N.
2004; 305 (5690): 1629-1631

- **Disparate effects of telomere attrition on gene expression during replicative senescence of human mammary epithelial cells cultured under different conditions** *ONCOGENE*
Zhang, H., Herbert, B. S., Pan, K. H., Shay, J. W., Cohen, S. N.
2004; 23 (37): 6193-6198
- **Global analysis of Escherichia coli RNA degradosome function using DNA microarrays** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bernstein, J. A., Lin, P. H., Cohen, S. N., Lin-Chao, S.
2004; 101 (9): 2758-2763
- **Genome plasticity in Streptomyces: identification of 1 Mb TIRs in the S-coelicolor A3(2) chromosome** *MOLECULAR MICROBIOLOGY*
Weaver, D., Karoonuthaisiri, N., Tsai, H. H., Huang, C. H., Ho, M. L., Gai, S. N., Patel, K. G., Huang, J. Q., Cohen, S. N., Hopwood, D. A., Chen, C. W., Kao, C. M.
2004; 51 (6): 1535-1550
- **The Streptomyces coelicolor polynucleotide phosphorylase homologue, and not the putative poly(A) polymerase, can polyadenylate RNA** *JOURNAL OF BACTERIOLOGY*
Sohlberg, B., Huang, J. Q., Cohen, S. N.
2003; 185 (24): 7273-7278
- **Identification and characterization of a pSLA2 plasmid locus required for linear DNA replication and circular plasmid stable inheritance in Streptomyces lividans** *JOURNAL OF BACTERIOLOGY*
Qin, Z. J., SHEN, M. J., Cohen, S. N.
2003; 185 (22): 6575-6582
- **DpiA binding to the replication origin of Escherichia coli plasmids and chromosomes destabilizes plasmid inheritance and induces the bacterial SOS response** *JOURNAL OF BACTERIOLOGY*
Miller, C., Ingmer, H., Thomsen, L. E., Skarstad, K., Cohen, S. N.
2003; 185 (20): 6025-6031
- **RraA: a protein inhibitor of RNase E activity that globally modulates RNA abundance in E. coli** *CELL*
Lee, K. S., Zhan, X. M., Gao, J. J., Ji, Q., Feng, Y. A., Meganathan, R., Cohen, S. N., Georgiou, G.
2003; 114 (5): 623-634
- **Tsg101 control of human immunodeficiency virus type 1 gag trafficking and release** *JOURNAL OF VIROLOGY*
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- **The chaplins: a family of hydrophobic cell-surface proteins involved in aerial mycelium formation in Streptomyces coelicolor** *GENES & DEVELOPMENT*
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2003; 17 (14): 1727-1740
- **TSG101 interaction with HRS mediates endosomal trafficking and receptor down-regulation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lu, Q., Hope, L. W., Brasch, M., Reinhard, C., Cohen, S. N.
2003; 100 (13): 7626-7631
- **A Streptomyces coelicolor functional orthologue of Escherichia coli RNase E shows shuffling of catalytic and PNPase-binding domains** *MOLECULAR MICROBIOLOGY*
Lee, K., Cohen, S. N.
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- **Senescence-specific gene expression fingerprints reveal cell-type-dependent physical clustering of up-regulated chromosomal loci** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Recruitment of terminal protein to the ends of Streptomyces linear plasmids and chromosomes by a novel telomere-binding protein essential for linear DNA replication** *GENES & DEVELOPMENT*
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2003; 17 (6): 774-785

- **The catalytic domain of RNase E shows inherent 3' to 5' directionality in cleavage site selection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Feng, Y. A., Vickers, T. A., Cohen, S. N.
2002; 99 (23): 14746-14751
- **Survival mechanisms for Streptomyces linear replicons after telomere damage** *MOLECULAR MICROBIOLOGY*
Qin, Z. J., Cohen, S. N.
2002; 45 (3): 785-794
- **Global analysis of mRNA decay and abundance in Escherichia coli at single-gene resolution using two-color fluorescent DNA microarrays** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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2002; 99 (15): 9697-9702
- **Polyadenylation can regulate ColE1 type plasmid copy number independently of any effect on RNAI decay by decreasing the interaction of antisense RNAI with its RNAII target** *PLASMID*
Xu, F. F., Gaggero, C., Cohen, S. N.
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- **Negative regulation of cell growth and differentiation by TSG101 through association with p21(Cip1/WAF1)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Oh, H., Mammucari, C., Nenci, A., Cabodi, S., Cohen, S. N., Dotto, G. P.
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Lee, K., Bernstein, J. A., Cohen, S. N.
2002; 43 (6): 1445-1456
- **Isolation and properties of Gas8, a growth arrest-specific gene regulated during male gametogenesis to produce a protein associated with the sperm motility apparatus** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Yeh, S. D., Chen, Y. J., Chang, A. C., Ray, R., She, B. R., Lee, W. S., Chiang, H. S., Cohen, S. N., Lin-Chao, S.
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- **Analysis of DNA microarrays using algorithms that employ rule-based expert knowledge** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Pan, K. H., Lih, C. J., Cohen, S. N.
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- **Global analysis of growth phase responsive gene expression and regulation of antibiotic biosynthetic pathways in Streptomyces coelicolor using DNA microarrays** *GENES & DEVELOPMENT*
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- **The RepA protein of plasmid pSC101 controls Escherichia coli cell division through the SOS response** *MOLECULAR MICROBIOLOGY*
Ingmer, H., Miller, C., Cohen, S. N.
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Feng, Y., Huang, H. J., Liao, J., Cohen, S. N.
2001; 276 (34): 31651-31656
- **Effects of 3' terminus modifications on mRNA functional decay during in vitro protein synthesis** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Lee, K., Cohen, S. N.
2001; 276 (26): 23268-23274
- **Terminal proteins essential for the replication of linear plasmids and chromosomes in Streptomyces** *GENES & DEVELOPMENT*
Bao, K., Cohen, S. N.
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- **Modulation of actinorhodin biosynthesis in Streptomyces lividans by glucose repression of afsR2 gene transcription** *JOURNAL OF BACTERIOLOGY*

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- **A TSG101/MDM2 regulatory loop modulates MDM2 degradation and MDM2/p53 feedback control** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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 - **p53 Accumulation, defective cell proliferation, and early embryonic lethality in mice lacking *tsg101*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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2001; 98 (4): 1859-1864
 - **RNA degradosomes exist in vivo in *Escherichia coli* as multicomponent complexes associated with the cytoplasmic membrane via the N-terminal region of ribonuclease E** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liou, G. G., Jane, W. N., Cohen, S. N., Lin, N. S., Lin-Chao, S.
2001; 98 (1): 63-68
 - **Unraveling the essential role in conjugation of the Tra protein of *Streptomyces lividans* plasmid pIJ101** *ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY*
Pettis, G. S., Cohen, S. N.
2001; 79 (3-4): 247-250
 - **Neoplastic transformation and tumorigenesis associated with Sam68 protein deficiency in cultured murine fibroblasts** *JOURNAL OF BIOLOGICAL CHEMISTRY*
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2000; 275 (51): 40195-40201
 - **Antisense RNA-mediated deficiency of the calpain protease, nCL-4, in NIH3T3 cells is associated with neoplastic transformation and tumorigenesis** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Liu, K. Y., Li, L. M., Cohen, S. N.
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 - **Mutational analysis of the *tra* locus of the broad-host-range *Streptomyces* plasmid pIJ101** *JOURNAL OF BACTERIOLOGY*
Pettis, G. S., Cohen, S. N.
2000; 182 (16): 4500-4504
 - **Long palindromes formed in *Streptomyces* by nonrecombinational intra-strand annealing** *GENES & DEVELOPMENT*
Qin, Z. J., Cohen, S. N.
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 - **Unpaired terminal nucleotides and 5' monophosphorylation govern 3' polyadenylation by *Escherichia coli* poly(A) polymerase I** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Feng, Y. N., Cohen, S. N.
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Feng, G. H., Lih, C. J., Cohen, S. N.
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 - **Alternative splicing regulates the production of ARD-1 endoribonuclease and NIPP-1, an inhibitor of protein phosphatase-1, as isoforms encoded by the same gene** *GENE*
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