

Donald L. Court, Ph.D.

### **BIBLIOGRAPHY**

1. Court, D., and Sato, K. Studies of novel transducing variants of lambda: Dispensability of genes N and Q. Virology 39: 348-352, 1969.
2. Court, D. Studies of bacteriophage lambda. Ph.D. Thesis, University of Rochester, 1970.
3. Echols, H., and Court, D. The role of helper phage in  $\lambda$  gal transduction. In: The Bacteriophage  $\lambda$ . Hershey A.D. (Ed.), Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, pp. 701-710, 1971.
4. Sutherland, B.M., Court, D., and Chamberlin, M.J. Studies of the DNA photoreactivating enzyme from Escherichia coli. I. Transduction of the phr gene by bacteriophage  $\lambda$ . Virology 48: 87-93, 1972.
5. Court, D., and Campbell, A. Gene regulation in N mutants of bacteriophage lambda. J. Virol. 9: 938-945, 1972.
6. Feiss, M., Adhya, S., and Court, D.L. Isolation of plaque-forming, galactose-transducing strains of phage  $\lambda$ . Genetics 71: 189-206, 1972.
7. Court, D., Green, L., and Echols, H. Positive and negative regulation by the cII and cIII gene products of bacteriophage lambda. Virology 63: 484-491, 1975.
8. Adhya, S., Court, D., de Crombrughe, B., and Gottesman, M. Changes in transcription of host genes after bacteriophage lambda induction. In: Proceedings of the 10th FEBS Meeting, Clark, B.F.C. (Ed.) Pergamon Press Oxford and NY, pp. 69-73, 1975.
9. Adhya, S., Gottesman, M., de Crombrughe, B., and Court, D. Transcription termination regulates gene expression. In: RNA Polymerase, Chamberlin, M. and Losick, R. (Eds.) Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 719-730, 1976.
10. Echols, H., Court, D., and Green, L. On the nature of cis-acting regulatory proteins and genetic organization in bacteriophage: the example of gene Q of bacteriophage  $\lambda$ . Genetics 83: 5-10, 1976.
11. Das, A., Court, D., and Adhya, S. Isolation and characterization of conditional lethal mutants of Escherichia coli defective in transcription termination factor Rho. Proc. Natl. Acad. Sci. USA 73: 1959-1963, 1976.

12. Dambly, C., Court, D., and Brachet, P. Specificity of polarity suppression in *E. coli*: correction of defects in gene N, but not in gene Q, of phage  $\lambda$ . Molec. Genet. 148: 175-182, 1976.
13. Adhya, S., Gottesman, M., and Court, D. Independence of gene N and *toI* functions of bacteriophage lambda. J. Mol. Biol. 112: 657-660, 1977.
14. Court, D., Adhya, S., Nash, H., and Enquist, L. The phage  $\lambda$  integration protein (Int) is subject to control by the *cII* and *cIII* gene products. In: DNA Insertion Elements, Plasmids and Episomes, Sharpiro, J., Bukhari, A., and Adhya, S. (Eds.). Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 389-394, 1977.
15. Das, A., Court, D., Gottesman, M., and Adhya, S. Polarity of IS elements is due to Rho mediated transcription termination. In: DNA Insertion Elements, Plasmids and Episomes, Sharpiro, J., Bukhari, A., and Adhya, S. (Eds.), Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 93-97, 1977.
16. Gottesman, M., Adhya, S., Court, D., and Das, A. The role of Rho in transcription termination in *E. coli*. In: Proceedings of the 11th FEBS Meeting Vol. 43, Clark, B.F.C. (Ed.), Pergamon Press Oxford and NY, pp. 163-169, 1978.
17. Merrill, C., Gottesman, M., Court, D., and Adhya, S. Discoordinate expression of the *E. coli* gal operon after prophage lambda induction. J. Mol. Biol. 118: 241-245, 1978.
18. Rosenberg, M., Court, D., Shimatake, H., Brady, C., and Wulff, D. The relation between function and DNA sequence in an intergenic regulatory region in phage  $\lambda$ . Nature 272: 414-422, 1978.
19. Rosenberg, M., Court, D., Shimatake, H., Brady, C., and Wulff, D. Structure and function of an intergenic regulatory region in bacteriophage lambda. In: The Operon, Miller, J. and Reznikoff, W. (Eds.) Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 345-371, 1978.
20. Georgopoulos, C.P., Bisig, R., Magazin, M., Eisen, H., and Court, D. Novel bacteriophage lambda mutation affecting lambda head assembly. J. Virol. 29: 782-788, 1979.
21. Collins, J.J., Adler, C.R., Fernandez-Pol, J.A., Court, D., and Johnson, G.S. Transient growth inhibition of *Escherichia coli* K-12 by iron chelators: in vivo inhibition of ribonucleic acid synthesis. J. Bacteriol. 138: 923-932, 1979.
22. Das, A., Court, D., and Adhya, S. Pleiotropic effect of rho mutation in *Escherichia coli*. In: Molecular Basis of Host-Virus Interaction, Chakravarty, M. (Ed.). Princeton Science Press, Princeton, NJ, pp. 459-467, 1979.
23. Rosenberg, M., and Court, D. Regulatory sequences involved in the promotion and termination of RNA transcription. Annu. Rev. Genet. 13: 319-353, 1979.

24. Johnson, G.S., Adler, C.R., Collins, J.J., and Court, D. Role of the spoT gene product and manganese ion in the metabolism of guanoine 5'-diphosphate, 3'-diphosphate in *Escherichia coli*. J. Biol. Chem. 254: 5483-5487, 1979.
25. Wulff, D.L., Beher, M., Izumi, S., Beck, J., Mahoney, M., Shimatake, H., Brady, C., Court, D., and Rosenberg, M. Structure and function of the cY control region of bacteriophage lambda. J. Mol. Biol. 138: 209-230, 1980.
26. Court, D., Brady, C., Rosenberg, M., Wulff, D.L., Behr, M., Mahoney, M., and Izumi, S. Control of transcription termination: a Rho-dependent termination site in bacteriophage lambda. J. Mol. Biol. 138: 231-254, 1980.
27. Court, D., Gottesman, M., and Gallo, M. Bacteriophage lambda Hin function: I. Pleiotropic alteration in host physiology. J. Mol. Biol. 138: 715-729, 1980.
28. Court, D., de Crombrughe, B., Adhya, S., and Gottesman, M. Bacteriophage lambda Hin Function: II. Enhanced stability of lambda messenger RNA. J. Mol. Biol. 138: 731-743, 1980.
29. Schmeissner, U., Court, D., Shimatake, H., and Rosenberg, M. Promoter for the establishment of repressor synthesis in bacteriophage  $\lambda$ . Proc. Natl. Acad. Sci. USA 77: 3191-3195, 1980.
30. Miller, H.I., Abraham, J., Benedik, M., Campbell, A., Court, D., Echols, H., Fischer, R., Galindo, J.M., Guarneros, G., Hernandez, T., Mascarenhas, D., Montanez, C., Schindler, D., Schmeissner, U., and Sosa, L. Regulation of the integration-excision reaction by bacteriophage  $\lambda$ . Cold Spring Harbor Symp. Quant. Biol. 45: 439-445, 1981.
31. Schmeissner, U., Court, D., McKenney, J., and Rosenberg, M. Positively activated transcription of  $\lambda$  integrase gene initiates with UTP in vivo. Nature 292: 173-175, 1981.
32. McKenney, K., Shimatake, H., Court, D., Schmeissner, U., Brady, C., and Rosenberg, M. A system to study promoter and terminator signals recognized by *Escherichia coli* RNA polymerase. In: Gene Amplification and Analysis, Vol. 2, Structural Analysis of Nucleic Acids, Chirikjian, J.G. and Papas, T.S. (Eds.). Elsevier/North Holland, New York, N.Y. pp 383-415, 1981.
33. Guarneros, G., Montanez, C., Hernandez, T., and Court, D. Posttranscriptional control of bacteriophage  $\lambda$  int gene expression from a site distal to the gene. Proc. Natl. Acad. Sci. USA 79: 238-242, 1982.
34. Gottesman, M., Oppenheim, A., and Court, D. Retroregulation: Control of gene expression from sites distal to the gene. Cell 29: 727-728, 1982.

35. Court, D., Huang, T.F., and Oppenheim, A.B. Deletion analysis of the retroregulatory site for the  $\lambda$  int gene. J. Mol. Biol. 166: 233-240, 1982.
36. Court, D., Schmeissner, J., Rosenberg, M., Oppenheim, A.B., Guarneros, G., and Montanez, C. Processing of  $\lambda$  int RNA: Mechanism for gene control. In: Microbiology - 1983 Schlessinger, D. (Ed.). American Society for Microbiology, Washington, D.C., pp. 78-81, 1983.
37. Lautenberger, J.A., Court, D., and T.S. Papas. High-level expression in Escherichia coli of the carboxy-terminal sequences of the avian myelocytomatosis virus (MC29) v-myc protein. Gene 23: 75-84, 1983.
38. Mizusawa, S., Court, D., and Gottesman, S. Transcription of the sulA gene and repression by lexA. J. Mol. Biol. 171: 337-343, 1983.
39. Court, D., Schmeissner, U., Bear, S., Rosenberg, M., Oppenheim, A.B., Montanez, C., and Guarneros, G. Control of  $\lambda$  int gene expression by RNA processing. In: Gene Expression, UCLA Symposia on Molecular and Cellular Biology Vol. 8. Hamer, D. and Rosenberg, M. (Eds.), Alan R. Liss, Inc., New York, NY, pp. 311-326, 1983.
40. Court, D., and Oppenheim, A.B. Phage lambda's accessory genes. In: Lambda II, Hendrix, R., Weinberg, R.A., Stahl, F. and Roberts, J. (Eds.), Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 251-277, 1983.
41. Lautenberger, J.A., Kan, N.C., Court, D., Pry, T., Showalter, S., and Papas, T.S. High-level expression of oncogenes in Escherichia coli. In: Expression of Cloned Genes in Prokaryotic and Eukaryotic Cells, Papas, T.S., Rosenberg, M. and Chirikjian, J.G. (Eds.). Elsevier/North Holland, New York, NY, pp. 147-174, 1983.
42. Schmeissner, U., McKenney, M., Rosenberg, M., and Court, D. Removal of a terminator structure by RNA processing regulates int gene expression. J. Mol. Biol. 176: 39-53, 1984.
43. Schmeissner, U., McKenney, K., Rosenberg, M., and Court, D. Transcription terminator involved in the expression of the int gene of phage lambda. Gene 28: 343-350, 1984.
44. Bear, S.E., Colberg-Poley, A.M., Court, D.L., Carter, B.J., and Enquist, L.W. Analysis of two potential shuttle vectors containing herpes simplex virus defective DNA. J. Mol. Appl. Genet. 2: 471-484, 1984.
45. Bear, S.E., Court, D., and Friedman, D.I. An accessory role for Escherichia coli integration host factor: Characterization of a lambda mutant dependent upon integration host factor for DNA packaging. J. Virol. 52: 966-972, 1984.
46. Tsugawa, A., Kurihara, T. Zuber, M., Court, D.L., and Nakamura, Y. E.coli NusA protein binds in vitro to an RNA sequence immediately upstream of the boxA signal of bacteriophage lambda. EMBO J. 4: 2337-2342, 1985.

47. Gussin, G., Hwang, J.J., Matz, K., Zuber M., and Court, D. Activation and repression of the  $\lambda$  pRE promoter by cII protein. In: Sequence Specificity in Transcription and Translation, Calendar, R. and Gold, L. (Eds.), UCLA Symposia on Molecular and Cellular Biology, Vol. 3, Alan R. Liss, Inc., New York, NY, pp. 229-238, 1985.
48. Nakamura, Y., Mizusawa, S., Court, D., and Tsugawa, A. Regulatory defects of a conditionally lethal nusA mutant of Escherichia coli: Positive and negative modulator roles of NusA protein in vivo. J. Mol. Biol. 189: 103-111, 1986.
49. Montanez, C., Bueno, J., Schmeissner, U., Court D.L., and Guarneros, G. Mutations of bacteriophage lambda that define independent but overlapping RNA processing and transcription termination sites. J. Mol. Biol. 191: 29-37, 1986.
50. Hu, S.C., Court, D.L., Zweig, M., and Levin, J.G. Murine leukemia virus pol gene products: Analysis with antisera generated against reverse transcriptase and endonuclease fusion proteins expressed in Escherichia coli. J. Virol. 60: 267-274, 1986.
51. Gussin, G.N., Temple, E., Brown, S.E., and Court, D. Repression of a mutant derivative of the pRE promoter of bacteriophage lambda by its activator, cII. Gene 46: 171-180, 1986.
52. Sisk, W.P., Chirikjian, J.G., Lautenberg, J., Jorcyk, C., Papas, T.S., Berman, M.L., Zagursky, R., and Court, D.L. A plasmid vector for cloning expression of gene segments: expression of HTLV-I envelope gene segment. Gene 48: 183-193, 1986.
53. Dandanell, G., Court, D.L., and Hammer, K. A single-copy galK promoter cloning vector suitable for cloning of strong promoters. Gene Anal. Techn. 3: 102-112, 1986.
54. Patterson, T.A., Court, D.L., Dubuc, G., Michniewicz, J.J., Goodchild, J., Bukhari, A.I., and Narang, S.A. Transposition studies of mini-Mu plasmids constructed from the chemically synthesized ends of bacteriophage Mu. Gene 50: 101-109, 1986.
55. Zuber, M., Patterson, T.A., and Court D.L. Analysis of nutR, a site required for transcription antitermination in phage  $\lambda$ . Proc. Natl. Acad. Sci. USA 84: 4514-4518, 1987.
56. Bahl, H., Echols, H., Straus, H.B., Court, D., Cowl, R., and Georgopoulos, C.P. Induction of the heat shock response of E. coli through stabilization of  $\sigma_{32}$  by the phage  $\lambda$  cIII protein. Genes Dev. 1: 57-64, 1987.
57. Zweig, M., Showalter, S.D., DuBois, G.C., Sisk, W.P., and Court, D.L. Detection of heterologous fusion proteins in Escherichia coli with a monoclonal antibody. Gene 55: 47-53, 1987.
58. Tsugawa, A., Saito, M., Court, D., and Nakamura, Y. nusA amber mutation that causes temperature-sensitive growth of Escherichia coli. J. Bacteriol. 170: 908-915, 1987.

59. Levin, J.G., Crouch, R.J., Post, K., Hu, S.C., McKelvin, D., Zweig, M., Court, D.L., and Gerwin, B.J. Functional organization of the murine leukemia virus reverse transcriptase: Characterization of a bacterially expressed AKR DNA polymerase deficient in RNase H activity. J. Virol. 62: 4376-4380, 1988.
60. Inada, T., Court, D.L., Ito, K., and Nakamura, Y. Conditionally lethal amber mutations in the leader peptidase gene of *Escherichia coli*. J. Bacteriol. 171: 585-587, 1989.
61. Nakamura, Y., Tsugawa, A., Fornwald, L.W., Showalter, S.D., Egawa, K., and Court, D. Murine monoclonal antibodies which recognize active sites of *Escherichia coli* NusA protein and epitope mapping by gene fusion. Gene 80: 13-19, 1989.
62. Takiff, H.E., Chen, S.M., and Court, D.L. Genetic analysis of the *rnc* operon of *Escherichia coli*. J. Bacteriol. 171: 2581-2590, 1989.
63. Inada, T., Kawakami, K., Chen, S.M., Takiff, H.E., Court, D.L., and Nakamura, Y. Temperature-sensitive lethal mutant of Era, a G-protein in *Escherichia coli*. J. Bacteriol. 171: 5017-5024, 1989.
64. Bardwell, J.C., Regnier, P., Chen, S.M., Nakamura, Y., Grunberg-Manago, M., and Court, D.L. Autoregulation of RNaseIII operon by mRNA processing. EMBO J. 8: 3401-3407, 1989.
65. Guzman, P., Chavira, B.E.R., Gottesman, M.E., Guarneros, G., and Court, D. Transcription of a bacteriophage  $\lambda$  DNA site blocks growth of *Escherichia coli*. J. Bacteriol. 172: 1030-1034, 1989.
66. Chen, S.M., Takiff, H.E., Dubois, G.C., Barber, A.M., Bardwell, J., and Court, D. Expression and characterization of RNaseIII and Era proteins: Products of the *rnc* operon of *Escherichia coli*. J. Biol. Chem. 265: 2888-2895, 1990.
67. Costantino, N., Zuber, M., and Court, D. Analysis of mutations in the *ninR* region of bacteriophage lambda that bypass a requirement for lambda N antitermination. J. Bacteriol. 172: 4610-4615, 1990.
68. Alvarez-Jacobs, J., Court, D., and Guarneros, G. Lysine and methionine overproduction by an *E. coli* strain transformed with *Pseudomonas acidovorans* DNA. Biotechnology Letters 12: 425-430, 1990.
69. Marcus-Sekura, C.J., Woerner, A.M., Zweig, M., Court, D.L., Levin, J.G., and Klutch, M. Expression of HIV-1 integrase in *E. coli*: Immunological analysis of the recombinant protein. AIDS Res. Human Retro. 6: 1399-1408, 1990.
70. Kameyama, L., Fernandez, L., Guarneros, G., and Court, D.L. Regulation of  $\lambda$  N-gene expression. In: NATO ASI Post-Transcriptional Control of Gene Expression, Vol. H49 McCarthy, J. and Tuite, M. (Eds.). pp. 125-133, 1990.

71. Kameyama, L., Fernandez, L., Court, D.L., and Guarneros, G. RNaseIII activation of bacteriophage  $\lambda$  N synthesis. Mol. Microbiol. 5: 2953-2963, 1991.
72. Chen, S., and Court D.L. High expression of era gene. Chin J Biotechno 7(3): 177-84, 1991.
73. Cheng, S.W.C., Lynch, E.C., Leason, K.R., Court, D.L., Shapiro, B.A., and Friedman, D.I. Functional importance of sequence in the stem-loop of a transcription terminator. Science 254: 1205-1207, 1991.
74. Chen, S., and Court, D.L. Overexpression of rnc gene and purification of RNaseIII. Chin J Biotechn. 8(2): 82-91, 1992.
75. Takiff, H.E., Baker, T., Copeland, T., Chen, S.M., and Court D.L. Locating essential Escherichia coli genes using mini-Tn10 transposons: The pdxJ operon. J. Bacteriol. 174: 1544-1553, 1992.
76. Court, D. RNA processing and degradation by RNase III. In: Control of mRNA Stability Brawerman, G. and Belasco, J. (Eds.). Academic Press, San Diego. Chapter 5, pp. 71-116, 1993.
77. Oppenheim, A.B., Kornitzer, D., Altuvia, S., and Court, D.L. Posttranscriptional control of the lysogenic pathway in bacteriophage lambda. In: Progress in Nucleic Acid Research and Molecular Biology. Cohn, W. and Moldave, K. (Eds.). Academic Press, San Diego. Vol. 46, pp. 37-49, 1993.
78. Patterson, T.A., Costantino, N., Dasgupta, S., and Court, D.L. Improved bacterial hosts for regulated expression of genes from  $\lambda$ p<sub>L</sub> plasmid vectors. Gene 132: 83-87, 1993.
79. Allikmets, R., Gerrard, B., Court, D., and Dean, M. Cloning and organization of the abc and mdl genes of Escherichia coli: relationship to eukaryotic multidrug resistance. Gene 136: 231-236, 1993.
80. Patterson, T.A., Zhang, Z., Baker, T., Johnson, L.L., Friedman, D.I., and Court, D.L. Bacteriophage lambda N-dependent transcription antitermination: Competition for an RNA site may regulate antitermination. J. Mol. Biol. 236: 217-228, 1994.
81. Powell, B.S., Rivas, M.P., Court, D.L., Nakamura, Y., and Turnbough, C.L., Jr. Rapid confirmation of single copy lambda prophage integration by PCR. Nucleic Acids Res. 22: 5765-5766, 1994.
82. Zuber, M., Hoover, T.A., Powell, B.S., and Court, D.L. Analysis of the rnc locus of Coxiella burnetii. Mol. Microbiol. 14: 291-300, 1994.

83. Zuber, M., Hoover, T.A., and Court, D.L. Cloning, sequencing and expression of the dnaJ gene of *Coxiella burnetii*. Gene 152: 99-102, 1995.
84. Powell, B.S., Court, D.L., Inada, T., and Nakamura Y., Michotey, V., Cui, X., Reizer, A., Saier, Jr., M.H. and J. Reizer. Novel proteins of the phosphotransferase system encoded within the rpoN operon of *Escherichia coli*: Enzyme 11A<sup>Ntr</sup> affects growth on organic nitrogen and the conditional lethality of an era<sup>ts</sup> mutant. J. Biol. Chem. 270: 4822-4839, 1995.
85. Court, D.L., Patterson, T.A., Baker, T., Costantino, N., Mao, X., and Friedman, D.I. Structural and functional analysis of the transcription-translation proteins NusB and NusE. J. Bacteriol. 177: 2589-2591, 1995.
86. Cheng, S.W., Court, D.L., and Friedman, D.I. Transcription termination signals in the nin region of bacteriophage lambda: identification of Rho-dependent termination regions. Genetics 140: 875-887, 1995.
87. Zuber, M., Hoover, T.A., and Court, D.L. Analysis of a *Coxiella burnetii* gene product that activates capsule synthesis in *Escherichia coli*: requirement for the heat-shock chaperone DnaK and the two component regulator RcsC. J. Bacteriol. 177: 4238-4244, 1995.
88. Zhang, Z., Patterson, T., and Court, D. Mutation in nutR affects early transcription antitermination in bacteriophage  $\lambda$ . Chinese Biochem. J. 11: 348-354, 1995.
89. Zuber, M., Hoover, T.A., Dertzbaugh, M.T., and Court, D.L. Analysis of the DnaK molecular chaperone system of *Francisella tularensis*. Gene 164: 149-152, 1995.
90. Friedman, D.I., and Court, D.L. Transcription antitermination: the  $\lambda$  paradigm updated. Molec. Microbiol. 18: 191-200, 1995.
91. Schauer, A.T., Cheng, S.W.C., Zheng, C., St. Pierre, L., Alessi, D. Hideyetoğlu, D.L., Costantino, N., Court, D.L., and Friedman, D.I. The alpha subunit of RNA polymerase and transcription antitermination. Molec. Microbiol. 21: 839-851, 1996.
92. Cisneros, B., Court, D., Sanchez, A., and Montanez, C. Point mutations in a transcription terminator,  $\lambda$ tI, that affect both transcription termination and RNA stability. Gene 181: 127-133, 1996.
93. Das, A., Pal, M., Garcia Mena, J., Whalen, W., Wolska, K., Crossley, R., Rees, W., von Hippel, P.H., Costantino, N., Court, D., Mazzulla, M., Altieri, A.S., Byrd, R.A., Chattopadhyay, S., DeVito, J., and Ghosh, B. Components of multiprotein RNA complex that controls transcription elongation in *Escherichia coli* phage lambda. Methods Enzymol. 274: 374-402, 1996.



94. Zuber, M., Hoover, T.A., Dertzbaugh, M.T., and Court, D.L. A *Francisella tularensis* DNA clone complements *Escherichia coli* defective for the production of Era, an essential Ras-like GTP-binding protein. Gene 189: 31-34, 1997.
95. Britton, R.A., Powell, B.S., Court, D.L., and Lupski, J.R. Characterization of mutations affecting the *Escherichia coli* essential GTPase Era that suppress two temperature-sensitive dnaG alleles. J. Bacteriol. 179: 4575-4582, 1997.
96. Wilson, H.R., Kameyama, L. Zhou, J.G., Guarneros, G., and Court, D.L. Translational repression by a transcriptional elongation factor. Genes & Dev. 11: 2204-2213, 1997.
97. Altieri, A.S., Mazzulla, M.J., Zhou, H., Costantino, N., Court, D.L., and Byrd, R.A. Sequential assignments and secondary structure of the RNA-binding transcriptional regulator NusB. FEBS Ltr. 415: 221-226, 1997.
98. Langenberg, W.G., Zhang, L., Court, D.L., Giunchedi, L., and Mitra, A. Transgenic tobacco plants expressing the bacterial rnc gene resist virus infection. Molec. Breeding. 3: 391-399, 1997.
99. Britton, R.A., Powell, B.S., Dasgupta, S., Sun, Q., Margolin, W., Lupski, J.R., and Court, D.L. Cell cycle arrest in Era GTPase mutants: a potential growth rate regulated checkpoint in *Escherichia coli*. Mol. Microbiol. 27: 739-750, 1998.
100. Powell, B.S., and Court, D.L. Control of FtsZ expression, cell division, and glutamine metabolism in Luria-Bertani medium by the alarmone ppGpp in *Escherichia coli*. J. Bacteriol. 80: 1053-1062, 1998.
101. Dasgupta, S., Fernandez, L., Kameyama, L., Inada, T., Nakamura, Y., Pappas, A., and Court, D.L. Genetic uncoupling of the dsRNA-binding and RNA-cleavage activities of the *Escherichia coli* endoribonuclease RNaseIII - the effect of dsRNA binding on gene expression. Mol. Microbiol. 28: 629-640, 1998.
102. Yu, D., and Court, D.L. A new system to place single copies of genes, sites and lacZ fusions on the *Escherichia coli* chromosome. Gene. 223: 77-81, 1998.
103. Chen, X., Chen, S., Powell, B.S., Court, D.L., and Ji, X. Purification, characterization and crystallization of ERA, an essential GTPase from *Escherichia coli*. FEB Letters. 445: 425-430, 1999.
104. Chen, X., Court, D.L., and Ji, X. Crystal Structure of ERA: a GTPase-dependent Cell Cycle Regulator Containing an RNA-binding Motif. PNAS. 96: 8396-9401, 1999.
105. Burova, E., Hung, S.C., Chen, J., Court, D.L., Zhou, J.G., Mogilnitskiy, G., and Gottesman, M. *Escherichia coli* nusG mutations that block transcription termination by coliphage HK022 Nus protein. Mol. Microbiol. 6: 1783-93, 1999.

106. Powell, B.S., Peters, III, H.K., Nakamura, Y., and Court, D. Cloning and analysis of the *mnc-era-recO* operon from *Pseudomonas aeruginosa*. J. Bacteriol. 181: 5111-5113, 1999.
107. Britton, R.A., Chen, S.M., Wallis, D., Koeuth, T., Powell, B.S., Schaffer, L.G., Largaespada, D., Jenkins, N.A., Copeland, N.G., Court, D.L., and Lupski, J.R. Isolation and preliminary characterization of the human and mouse homologues of the bacterial cell cycle gene *era*. Genomics 67: 78-82, 2000.
108. Yu, D., Ellis, H.M., Lee, E.C., Jenkins, N.A., Copeland, N.G., and Court, D.L. An efficient recombination system for chromosome engineering in *E. coli*. PNAS 97: 5978-4983, 2000.
109. Altieri, A.S., Mazzulla, M.J., Horita, D.A., Coats, R.H., Das, A., Court, D.L., and Byrd, R.A. The structure of the transcriptional antiterminator NusB from *Escherichia coli*. Nature Struc. Biol., 7: 470-474, 2000.
110. Lee, E.C., Yu, D., de Velasco, J.M., Swing, D.A., Tessarollo, L., Court, D.L., Jenkins, N.A., and Copeland, N.G. A highly efficient *E. coli*-based chromosome engineering system adapted for recombinogenic targeting and subcloning of BAC DNA. Genomics 73: 56-65, 2001.
111. Timmons, L., Court, D.L., and Fire, A. Ingestion of bacterially expressed dsRNAs can produce specific and potent genetic interference in *Caenorhabditis elegans*. Gene 263: 103-112, 2001.
112. Swaminathan, S., Ellis, H., Waters, L.S., Yu, D., Lee, E.C., Court, D.L., and Sharan, S.K. Rapid engineering of bacterial artificial chromosomes using oligonucleotides. Genesis 29: 14-21, 2001.
113. Friedman, D.I., and Court, D.L. Bacteriophage lambda: alive and well and still doing its thing. Current Opinion in Microbiology 4: 201-207, 2001.
114. Ellis, H., Yu, D., DiTizio, T., and Court, D. High efficiency mutagenesis, repair, and engineering of chromosomal DNA using single-stranded oligonucleotides. Proc. Natl. Acad. Sci. USA. 98: 6742-6746, 2001.
115. Sergueev, K., Yu, D., Austin, S., and Court, D. Cell toxicity caused by products of the  $P_L$  operon of bacteriophage lambda. Gene 232: 227-235, 2001.
116. Blaszczyk, J., Tropea, J.E., Bubunencko, M., Routzahn, K.M., Waugh, D.S., Court, D.L., and Ji, X. Crystallographic and modeling studies of RNase III suggest a mechanism for double-stranded RNA cleavage. Structure 9: 1225-1236, 2001.
117. Copeland, N.G., Jenkins, N., and Court, D.L. Recombineering: A Powerful New Tool for Mouse Functional Genomics. Nature Reviews: Genetics 2: 769-779, 2001.

118. Feiss, M, and Court, D.L.  $\lambda$ -like phages - Siphoviridae. In: The Springer Index of Viruses. Tidona, C. and Darai, G. (Eds.) pp. 1098-1107, 2001.
119. Zhou, Y., Filter, J.J., Court, D., Gottesman, M., and Friedman, D. Requirement for NusG for transcription antitermination in vivo by the  $\lambda$  N protein. J. Bact. 184: 3416-3418, 2002.
120. Wilson, H.R., Yu, D., Peters III, H., Zhou, J., and Court, D. The global regulator RNaseIII modulates translational repression by the transcriptional elongation factor N. EMBO 21: 4154-4161, 2002.
121. Court, D.L., Sawitzke, J.A., and Thomason, L.C. Genetic Engineering Using Homologous Recombination (A. Campbell, W. Anderson and E. Jones eds.) Annual Review of Genetics 36: 361-388, 2002.
122. Sergueev, K., Court, D., Reaves, L., and Austin, S.E. coli cell-cycle regulation by bacteriophage lambda. J. Mol. Biol 294: 297-307, 2002.
123. Kobilier, O., Koby, S., Teff, D., Court, D., and Oppenheim, A.B. The phage  $\lambda$  CII transcriptional activator carries a C- terminal domain signaling for rapid proteolysis. PNAS 99: 1464-1469, 2002.
124. Minkovsky, N., Zarimani, A., Chary, V.K., Johnstone, B.H., Powell, B.S., Torrance P.D., Court, D.L., Simons, R.W., and Piggot, P.J. Bex, the Bacillus subtilis homolog of the essential Escherichia coli GTPase Era, is required for normal cell division and spore formation. J Bacteriol 184: 6389-6394, 2002.
125. Knowlton, J.R., Bubunenko, M., Andrykovitch, M., Guo, W., Routzahn, K.M., Waugh, D.S., Court, D.L., and Ji, X. A Spring-Loaded State of NusG in Its Functional Cycle Is Suggested by X-ray Crystallography and Supported by Site-Directed Mutants. Biochemistry 42: 2275-2281, 2003.
126. Kim, H.C., Zhou, J., Wilson, H.R., Mogilnitskiy, G., Court, D.L., and Gottesman, M.E. Phage HK022 Nun protein represses translation of phage lambda N. Proc. Natl. Acad. Sci USA 100: 5308-5312, 2003.
127. Yu, D, Sawitzke, J.A., Ellis, H., and Court, D.L. Recombineering with overlapping single-stranded DNA oligonucleotides: Testing a recombination intermediate. Proc. Natl. Acad. Sci USA 100: 7207-7212, 2003.
128. Court, D.L., Swaminathan, S., Yu, D., Wilson, H., Baker, T., Bubunenko, M., Sawitzke, J., and Sharan, S.K. Mini- $\lambda$ : A Tractable System for Chromosome and BAC Engineering. Gene 315: 63-69, 2003.
129. Li, X., Costantino, N., Lu, L., Liu, D., Watt, R., Cheah, C.S.E., Court, D.L., and Huang, J.D. Identification of Factors Influencing Strand Bias in Single-Stranded Oligonucleotide Mediated Recombination in E. coli. Nucl. Acid Res 31: 6674-6687, 2003.

130. Costantino, N., and Court, D.L. Enhanced Levels of  $\lambda$  Red Recombinants in Mismatch Repair Mutants. Proc. Natl. Acad Sci USA. 100: 15748-15753, 2003.
131. Oppenheim, A.B., Rattray, A.J., Bubunenko, M., Thomason, L.C., and Court, D.L. In Vivo Recombineering of Bacteriophage  $\lambda$  by PCR Fragments and Single-Stranded Oligonucleotides. Virology 319: 185-189, 2004.
132. Blaszczyk, J., Gan, J., Tropea, J.E., Court, D.L., Waugh, D.S., and Ji, X. Non-Catalytic Assembly of Ribonuclease III with Double-Stranded RNA. Structure 12: 457-466, 2004.
133. Wilson, H.R., Zhou, J.G., Yu, D., and Court, D.L. Translation Repression by an RNA Polymerase Elongation Complex. Mol. Microbiol 53: 821-828, 2004.
134. Thomason, L.C., Court, D.L., Datta, A.R., Khanna, R., and Rosner, J.L. Identification of the Escherichia coli K-12 ybhE Gene as pgl, Encoding 6-Phosphogluconolactonase. J. Bacteriol 186: 8248-8253, 2004.
135. Kobiler, O., Rokney, A., Friedman, N., Court, D.L., Stavans, J., and Oppenheim, A.B. Quantitative kinetic analysis of the bacteriophage lambda genetic network. Proc. Natl. Acad. Sci USA. 102: 4470-4475, 2005.
136. Svenningsen, S.L., Costantino, N., Court, D.L., and Adhya, S. The role of DNA looping in stability and induction of the  $\lambda$  prophage. Proc. Natl. Acad Sci USA. 102: 4465-4469, 2005.
137. Warming, S., Costantino, N., Court, D.L., Jenkins, N.A., and Copeland, N.G. Simple and Efficient BAC Recombineering Using galK Selection. Nucleic Acids Res E-36, 2005.
138. Gan, J., Tropea, J.E., Austin, B.P., Court, D.L., Waugh, D.S., and Ji, X. Intermediate States of Ribonuclease III in Complex with Double-Stranded RNA. Structure 13: 1435-1442, 2005.
139. Oppenheim, A.B., Kobiler, O., Stavans J, Court, D.L., and Adhya, S. Switches in bacteriophage lambda development. Campbell, A., Anderson, W. and Jones, E. (Eds.) Annu Rev Genet. 39: 409-429, 2005.
140. Friedman, D.I., and Court, D.L. Regulation of Gene Expression by Transcription Termination and Antitermination. Chapter 9: Calendar, R. (Ed.) In: The Bacteriophages, 2<sup>nd</sup> Edition, Oxford University Press, New York, pp. 83-103, 2006.
141. Gan, J., Tropea, J.E., Austin, B.P., Court, D.L., Waugh, D.S., and Ji, X. Structural Insight into the Mechanism of Double-Stranded RNA Processing by Ribonuclease III. Cell 124: 355-366, 2006.

142. Bubunenko, M., Korepanov, A., Court, D.L., Jagannathan, I., Dickinson, D., Chaudhuri, R., Garber, M.B., and Culver, G.M. 30S Ribosomal Subunits Can Be Assembled in vivo without Primary Binding Ribosomal Protein S15. RNA 12: 1229-1239, 2006.
143. Datta, S., Costantino, N., and Court, D.L. A Set of Recombineering Plasmids for Gram-Negative Bacteria. Gene 379: 109-115, 2006.
144. Washburn, R.S., Court, D.L., and Gottesman, M.E. Role of an RNase III Binding Site in Transcription Termination at  $\square$  nutL by HK022 Nun Protein. J. Bacteriol 188: 6824-6831, 2006.
145. Korepanov, A.P., Gongadze, G.M., Garber, M.B., Court, D. L., and Bubunenko, M.G. Importance of the 5S rRNA-binding Ribosomal Proteins for Cell Viability and Translation in Escherichia coli. J. Mol. Biol 366: 1199-1208, 2006.
146. Court, D.L., Oppenheim, A.B., and Adhya, S. A New Look at Bacteriophage  $\lambda$  Genetic Networks. J. Bacteriol 189: 298-304, 2007.
147. Sawitzke, J.A., Thomason, L.C., Costantino, N., Bubunenko, M., Datta, S., and Court, D.L. Recombineering: In Vivo Genetic Engineering in E. coli, S. enterica, and Beyond. Methods in Enzymology. In: Advanced Bacterial Genetics Use of Transposons and Phage for Genomic Engineering. Hughes, K.T. and Maloy, S.R. (Eds.), Vol. 421: Chapter 15, pp. 171-199, 2007.
148. Thomason, L.C., Oppenheim, A.B., and Court, D.L. Modifying bacteriophage  $\lambda$  with recombineering. Methods Mol. Biol. 501: 239-251, 2009.
149. Bubunenko, M., Baker, T., and Court, D.L. Essentiality of Ribosomal and Transcription Antitermination Proteins Analyzed by Systematic Gene Replacement in E. coli. J. Bacteriol 189: 2844-2853, 2007.
150. Chan, W., Costantino, N., Li, R., Lee, S.C., Su, Q., Melvin, D., Court, D.L., and Liu, P.A. recombineering based approach for high throughput conditional knockout targeting vector construction. Nucleic Acids Res., 35(8): e64, 2007.
151. Phadtare, S., Kazakov, T., Bubunenko, M., Court, D.L., Pestova, T., and Severinov, K. Translation Initiation Factor IF1 Acts as a Transcription Antiterminator. J. Bacteriol. 189: 4087-4093, 2007.
152. Thomason, L.C, Costantino, N., Shaw, D.V., and Court, D.L. Multicopy Plasmid Modification with Phage  $\lambda$  Red Recombineering. Plasmid 58: 148-158, 2007.
153. Wang, Y., Stieglitz, K.A., Bubunenko, M., Court, D.L., Stec, B., and Roberts, M.F. The structure of the R184A mutant of the inositol monophosphatase encoded by suhB and implications for its functional interactions in E. coli. J. Biol. Chem. 282: 26989-26996, 2007.

154. Gan, J., Shaw, G., Tropea, J.E., Waugh, D.S., Court, D.L., and Ji, X. A stepwise model for double-stranded RNA processing by ribonuclease III. Mol. Microbiol 67: 143-154, 2007.
155. Thomason, L.C., Costantino, N., and Court, D.L. E. coli genome manipulation by P1 transduction. Curr. Protoc. Mol. Biol. Chapter 1, Unit 17, John Wiley & Sons, Inc., Hoboken, NJ, pp. 1-8, 2007.
156. Thomason, L.C., Court, D.L., Bubunenko, M., Costantino, N., Wilson, H., Datta, S., and Oppenheim, A. Recombineering: genetic engineering in bacteria using homologous recombination. In: Curr. Protoc Mol Biol Chap 1:Unit 1.16 John Wiley & Sons, Inc., Hoboken, NJ, pp. 1-21, 2007.
157. Datta, S., Costantino, N., Zhou, X., and Court, D.L. Identification and Analysis of Recombineering Functions from Gram-Negative and Gram-Positive Bacteria and their Phages. Proc. Natl. Acad. Sci. USA. 105: 1636-1641, 2007.
158. Rokney, A., Kobiler, O., Amir, A., Court, D.L., Stavans, J., Adhya, S., and Oppenheim, A.B. Host responses influence on the induction of lambda prophage. Mol. Microbiol. 68(1): 29-36, 2008.
159. Luo, X., Hsiao, H.H., Bubunenko, M., Weber, G., Court, D.L., Gottesman, M.E., Urlaub, H., and Wahl, M.C. Structural and function analysis of the *E. coli* NusB-S10 transcription antitermination complex. Mol. Cell 32: 791-802, 2008.
160. Thomason, L.C., Oppenheim, A.B., and Court, D.L. Chapter 21. Modifying Bacteriophage  $\lambda$  with Recombineering. In Bacteriophages: Methods and Protocols, Volume 1: Isolation, Characterization and Interactions. Series: Methods in Molecular Biology Vol. 501, Walker, J.M. (Ed.), Humana Press, Inc., Totowa, N.J., pp. 239-251, 2009.
161. Sharan, S.K., Thomason, L.C., Kuznetsov, S.G., and Court, D.L. Recombineering: a homologous recombination-based method of genetic engineering. Nat. Protoc. 4:206-223, 2009.
162. Ninfa, A.J., Atkinson, M.R., Forger, D., Atkins, S., Arps, D., Selinsky, S., Court, D., Perry, N., and Mayo, A.E. A Synthetic Biology Approach to Understanding Biological Oscillations: Developing a Genetic Oscillator for *Escherichia coli*. In Bacterial Circadian Programs Ditty, J.L., Mackey, S.R., and Johnson, C.H. (Eds.), (Springer) Berlin, Chapter 17: pp. 301-329, 2009.
163. Tu, C., Tropea, J.E., Austin, B.P., Court, D.L., Waugh, D.S., and Ji, X. Structural basis for binding of RNA and cofactor by a KsgA methyltransferase. Structure 17: 374-385, 2009.
164. Tu, C., Zhou, X., Tropea, J.E., Austin, B.P., Waugh, D.S., Court, D.L., and Ji, X. Structure of ERA in complex with the 3' end of 16S rRNA: Implications for ribosome biogenesis. Proc. Natl. Acad. Sci USA 106: 14843-14848, 2009.

165. Swingle, B., Markel, E., Costantino, N., Bubunencko, M.G., Cartinhour, S., and Court, D.L. Oligonucleotide Recombination in Gram Negative Bacteria. Mol. Micro 75: 138-148, 2010.
166. Martínez-Trujillo, M., Sánchez-Trujillo, A., Ceja V., Ávila-Moreno, F., Bermúdez-Cruz, R.M., Court, D. L., and Montañez, C. Sequences required for transcription termination at the intrinsic  $\lambda I$  terminator. Can J Microbiol 56: 168-177, 2010.
167. Strader, M.B., Costantino, N., Elkins, C.A., Chen, C.Y., Patel, I., Makusky, A.J., Choy, J.S., Court, D.L., Markey, S.P., and Kowalak, J.A. A proteomic and transcriptomic approach reveals new insight into  $\beta$ -methylthiolation of *Escherichia coli* Ribosomal protein S12. Mol. Cell. Proteomics 10.3: M110.005199, 1-10, 2011.
168. Sawitzke, J.A., Costantino, N., Li, X., Thomason, L.C., Bubunencko, M., Court, C., and Court, D.L. Probing cellular processes with oligo-mediated recombination and using the knowledge gained to optimize recombineering. J. Mol. Biol 407: 45-59, 2011.
169. Tu, C., Zhou, X., Tropea, J.E., Austin, B.P., Waugh, D.S., Court, D.C., and Ji, X. Era Recognizes the GAUCACCUCC Sequence and Binds Helix 45 near the 3' End of 16S rRNA . Proc. Natl. Acad. Sci USA. 108: 10156-10161, 2011.
170. Stagno, J.R., Altieri, A.S., Bubunencko, M., Tarasov, S.G., Li, J., Court, D.L., Byrd, R.A., and Ji, X. Structural Basis for RNA Recognition by NusB and NusE in the Initiation of Transcription Antitermination. Nucleic Acid Res 39: 7803-7815, 2011.
171. Sawitzke, J.A., Thomason, L.C., Bubunencko, M., Li, X., Costantino, N., and Court, D.L. Recombineering: highly efficient *in vivo* genetic engineering using single-strand oligos. In: Methods Navigator Cookbook. J. Lorsch (Ed.), <http://www.elsevierdirect.com/methodsnavigator/index.html>: Elsevier, 2011.
172. Sawitzke, J.A., Thomason, L.C., Bubunencko, M., Li, X., Costantino, N., and Court, D.L. Recombineering: using drug cassettes to knock out genes *in vivo*. In: Methods Navigator Cookbook. J. Lorsch (Ed.). <http://www.elsevierdirect.com/methodsnavigator/index.html>: Elsevier, 2011.
173. Feiss, M., and Court, D.  $\lambda$ -like phages - Siphoviridae. In: The Springer Index of viruses. Part 83. 2<sup>nd</sup> Edition (C. Tidona and G. Darai, eds.) 1781-1790, 2012.
174. Sawitzke, J.A., Youngren, B., Thomason, L.C., Baker, T., Sengupta, M., Court, D. L., and Austin, S. The segregation of *Escherichia coli* mini-chromosomes constructed *in vivo* by recombineering. Plasmid 67: 148-154, 2012.
175. Strathern, J., Jin, D.J., Court, D.L., and Kashlev, M. Isolation and characterization of transcription fidelity mutants. BBA 1819: 694-699, 2012.

176. Bubunenko, M., Court, D.L., Al Refaii, A., Korepanov, A., Friedman, D.I., Gottesman, M., and Alix, J.H. Nus transcription elongation factors and RNase III modulate small ribosome subunit biogenesis in *E. coli*. Mol Microbiol 87: 382-393, 2013.
177. Zhou, Y.N., Lubkowska, L., Hui, M., Court, C., Chen, S., Court, D.L., Strathern, J., Jin, D.J., and Kashlev, M. Isolation and characterization of RNA polymerase *rpoB* mutations that alter transcription slippage during elongation in *Escherichia coli*. J. Biol. Chem 288: 2700-2710, 2013.
178. Strader, M.B., Hervey IV, W.J., Costantino, N., Fujigaki, S., Chen, C.Y., Akal-Strader, A., Ihunnah, C.A., Makusky, A.J., Court, D.L., Markey, S.P., and Kowalak, J.A. A coordinated proteomic approach for identifying proteins that interact with the *E. coli* ribosomal protein S12. J. Proteome Res 12: 1289-1299, 2013.
179. Arbel-Goren, R., Tal, A., Friedlander, T., Meshner, S., Costantino, N., Court, D.L., and Stavans, J. Effects of post-transcriptional regulation on phenotypic noise in *Escherichia coli*. Nucl. Acids Res. 41(9): 4825-4834, 2013.
180. Li, X., Thomason, L.C., Sawitzke, J.A., Costantino, N., and Court, D.L. Bacterial DNA polymerases participate in oligonucleotide recombination. Mol Microbiol. 88(5): 906-920, 2013.
181. Sawitzke, J.A., Bubunenko, M., Thomason, L., Li, X., Costantino, N., and Court, D. Recombineering: A modern approach to genetic engineering. In: Brenner's Online Encyclopedia of Genetics 2nd Edition. Maloy, S.R. and Hughes, K.T. (Eds.), Elsevier/Academic Press. Oxford, UK, pp. 109-112, 2013.
182. Sawitzke, J.A., Thomason, L.C., Bubunenko, M., Li, X., Costantino, N., Court, D.L. Recombineering: Using drug cassettes to knock out genes *in vivo*. Methods Enzymol. 533: 79-102, 2013. (Republished from Methods Navigator)
183. Sawitzke, J.A., Thomason, L.C., Bubunenko, M., Li, X., Costantino, N., Court, D.L. Recombineering: Highly efficient *in vivo* genetic engineering using single-strand oligos. Methods Enzymol. 533: 157-177, 2013. (Republished from Methods Navigator)
184. Li, X., Thomason, L.C., Sawitzke, J.A., Costantino, N., and Court, D.L. Positive and negative selection using the *tetA-sacB* cassette: Recombineering and P1 transduction in *E. coli*. Nucl. Acids Res. 2013.
185. Court, D.L., Gan, J., Liang, Y.H., Shaw, G.X., Tropea, J.E., Costantino, N., Waugh, D.S., and Ji, X. RNase III: Genetics and Function; Structure and Mechanism. In: Ann. Rev. Genet., Vol. 47: 405-431, 2013.
186. Haeusser, D.P., Hoashi, M., Weaver, A., Brown, N., Pan, J., Sawitzke, J.A., Thomason, L.C., Court, D.L., and Margolin, W. The Kil peptide of bacteriophage  $\lambda$  blocks *Escherichia*



*coli* cytokinesis via ZipA-dependent inhibition of FtsZ assembly. PLoS Genetics;, e1004217. doi: 10.1371/journal.pgen.1004217. 2014.

187. Parks, A.R., Court, C., Lubkowska, L., Jin, D., Kashlev, M., and Court, D.L. Bacteriophage  $\lambda$  N protein inhibits transcription slippage by *Escherichia coli* RNA polymerase. Nucl. Acids Res. 1 doi: 10.1093/nar/gku203. 2014.
188. Thomason, L. C., Sawitzke, J. A., Li, X., Costantino, N. and Court, D. L. Recombineering: Genetic Engineering in Bacteria Using Homologous Recombination. Curr. Protoc. Mol. Biol. 106:1.16.1–1.16.39. 2014.
189. Tal, A., Arbel-Goren, R., Costantino, N., Court, D.L., Stavans, J. Location of the unique integration site on an *E. coli* chromosome by bacteriophage lambda DNA *in vivo*. Proc. Natl. Acad. Sci. USA. 111:7308-7312. 2014.

#### Patents Issued:

U.S. Patent #5,316,922 - "Method for Identifying and Expressing Proteins That Recognize And Adhere to Specific Probes"

U.S. Patent #6,132,954 - "Methods of Screening for Agents that Delay a Cell Cycle and Compositions Comprising ERA and An Analogue of Wild-type ERA"

U.S. Patent #7,144,734 - Court D.L., Ellis, H.M., Copeland, N.G., Jenkins, N.A., Lee, E. Liu, P., Yu, D. Enhanced Homologous Recombination Mediated By Lambda Recombination Proteins. Patents pending: 12/760,461 (US application); 10/692,553 (US application).

Patent #7,521,242 - Court DL, Constantino N, Huang J, Li X, Liu D. Host Cells Deficient For Mismatch Repair And Their Use In Methods For Inducing Homologous Recombination Using Single-stranded Nucleic Acids.

Court DL, Costantino NC, Sawitzke, JA Highly efficient Oligonucleotide-mediated recombination (Research Tool).

Patent #7,674,621 - Court DL, Costantino NC, Datta S Plasmids And Phages For Homologous Recombination And Methods Of Use., Patent pending: 12/688,764 (US application).