CURRICULUM VITAE

JACK GRIFFITH

PERSONAL INFORMATION

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Date & Place of Birth: March 26, 1942; Logan, Utah

EDUCATION

1964	B.A., Physics, Occidental College, Los Angeles, California.
1969	California Institute of Technology, Biology Department, Ph.D., Biology, (James Bonner, advisor).
1969-1970	Cornell University, Ithaca, New York, Department of Applied Physics, Postdoctoral Fellow, (with Benjamin Siegel).
1970-1973	Stanford University, Stanford, California, Department of Biochemistry, Postdoctoral Fellow, (with Arthur Kornberg).

RESEARCH AND PROFESSIONAL EXPERIENCE

1986-present:	Full Professor, Lineberger Comprehensive Cancer Center, and Department of Microbiology and Immunology, University of North Carolina at Chapel Hill.
1978-1986:	Associate Professor, Lineberger Comprehensive Cancer Center, and Department of Microbiology and Immunology, University of North Carolina at Chapel Hill.
1978-present:	Member, Genetics Curriculum, and Program in Molecular Biology and Biotechnology, University of North Carolina at Chapel Hill.
1973-1977:	Research Scientist, Biochemistry Department, Stanford University, Stanford, California.

PROFESSIONAL SOCIETIES

Biophysical Society
Associated Societies for Biochemistry and Molecular Biology

PROFESSIONAL SERVICE

Editorial Boards
Journal of Biological Chemistry, 2002-2007
re appointed for 2010-2015

National Review Panels:
NIH: Molecular Cytology Study Section: ad Hoc 1985, 1986
NIH: Molecular Biology Study Section: ad hoc 1998
NIH: AIDS/Molecular Biology Study Section: ad hoc 1988
NIH: AIDS/Molecular Biology Study Section: 1989-1994.
NIH: AIDS/Molecular Biology Study Section Chair 1992-1994.
NIH: Site visit to Albany New York National EM center.

Scientific Advisory boards:
Board of Scientific Advisors, Brookhaven National Laboratory, 1996-1998
Advisory Board, Fragile X Advocate, 1996-1999.
Directorate Advisory Committee, Pacific Northwest National labs 2012-2016

International Meetings Organized:

Organized International Meeting on "Physical Approaches to Sequencing the Human Genome" Mt. McKinley Park, Alaska, 1990
Organized First International Meeting on "Unstable Triplets, Microsatellites and Human Disease" Santa Fe, New Mexico, 1997
Organized Second International Meeting, "Unstable Triplets, Microsatellites and Human Disease" Chapel Hill, North Carolina, 1999
Organized the 2007 Keystone Symposium on DNA Replication and Recombination, Held in Santa Fe, New Mexico
Organized Meeting on telomeres and DNA repair, Alyeska, Alaska 2014

HONORS AND AWARDS

Elected Fellow, of the American Association for the Advancement of Science, 2001

Ellison Senior Scholar Award, 2001 - 2005

Herbert A. Sober Award: Associated Societies for Biochemistry and Molecular Biology, 2002

Kenan Distinguished Professor, University of North Carolina, 2002 -

Elected to the American Academy of Arts and Sciences, 2005

Awarded the Grand Gold Medal of Comenius University, Slovak Republic, 2006

Glenn Foundation Glenn Award, 2007

Elected to the National Academy of Sciences, 2018

Progress Award (2020/2021) Photographic Society of America.

PUBLICATIONS (JOURNAL ARTICLES)

1. Griffith, J.D., Huberman, J.A. & Kornberg, A. (1971). Electron microscopy of DNA polymerase bound to DNA. J Mol Biol, 55(2), 209-14. PMID: 4926886

2. Griffith, J.D. & Bonner, J.F. (1973). Chromatin-like aggregates of uranyl acetate. Nat New Biol, 244(133), 80-1. PMID: 4124652

3. Pratt, D., Laws, P. & Griffith, J.D. (1974). Complex of bacteriophage M13 single-stranded DNA and gene 5 protein. J Mol Biol, 82(4), 425-39. PMID: 4594145

4. Griffith, J.D. & Kornberg, A. (1974). Mini M13 bacteriophage: circular fragments of M13 DNA are replicated and packaged during normal infections. Virology, 59(1), 139-52. PMID: 4826202

5. Tabak, H.F., Griffith, J.D., Geider, K., Schaller, H., & Kornberg, A. (1974). Initiation of deoxyribonucleic acid synthesis. VII. A unique location of the gap in the M13 replicative duplex synthesized in vitro. J Biol Chem, 249(10), 3049-54. PMID: 4598119

6. Griffith, J.D. (1975). Chromatin structure: deduced from a minichromosome. Science, 187(4182), 1202-3. PMID: 17754289

7. Griffith, J.D., Dieckmann, M. & Berg, P. (1975). Electron microscope localization of a protein bound near the origin of simian virus 40 DNA replication. J Virol, 15(1), 167-72. PMCID: PMC354431

8. Griffith, J.D. (1976). Visualization of prokaryotic DNA in a regularly condensed chromatin-like fiber. Proc Natl Acad Sci USA, 73(2), 563-7. PMCID: PMC335950

9. Christiansen, G., Landers, T., Griffith, J.D., & Berg, P. (1977). Characterization of components released by alkali disruption of simian virus 40. J Virol, 21(3), 1079-84. PMCID: PMC515648

10. Christiansen, G. & Griffith, J.D. (1977). Salt and divalent cations affect the flexible nature of the natural beaded chromatin structure. Nucleic Acids Res, 4(6), 1837-51. PMCID: PMC342526

11. Albring, M., Griffith, J.D. & Attardi, G. (1977). Association of a protein structure of probable membrane derivation with HeLa cell mitochondrial DNA near its origin of replication. Proc Natl Acad Sci USA, 74(4), 1348-52. PMCID: PMC430753

12. Eisenberg, S., Griffith, J.D. & Kornberg, A. (1977). ϕX174 *cistron A* protein is a multifunctional enzyme in DNA replication. Proc Natl Acad Sci USA**,** 74(8), 3198-202. PMCID: PMC431495

13. Griffith, J.D. (1978). Ligation of nicked SV40 DNA in a polyethylene glycol-condensed state as a test for net coiling. Biopolymers, 17(1), 237-41. PMID: 203350

14. Griffith, J.D. (1978). DNA Structure: evidence from electron microscopy. Science, 201(4355), 525-7. PMID: 663672

15. Dunn, K. & Griffith, J.D. (1980). The presence of RNA in a double helix inhibits its interaction with histone protein. Nucleic Acids Res, 8(3), 555-66. PMCID: PMC327289

16. Griffith, J.D., Manning, M. & Dunn, K. (1981). Filamentous bacteriophage contract into hollow spherical particles upon exposure to a chloroform-water interface. Cell, 23(3), 747-53. PMID: 7226228

17. Manning, M., Chrysogelos, S. & Griffith, J.D. (1981). Mechanism of coliphage M13 contraction: intermediate structures trapped at low temperatures. J Virol, 40(3), 912-9. PMCID: PMC256702

18. Manning, M., Chrysogelos, S. & Griffith, J.D. (1981). Insertion of bacteriophage M13 coat protein into membranes. Biophysical Journal, 37(1), 28-30. PMCID: PMC1329038

19. Griffith, J.D., Hester, S. & El-Saidy, S. (1982). A duplex structure involving two non-complementary DNA strands can be formed and stabilized by M13 phage proteins. J Mol Biol, 157(2), 321-30. PMID: 7108962

20. Dunn, K., Chrysogelos, S. & Griffith, J.D. (1982). Electron microscopic visualization of recA-DNA filaments: evidence for a cyclic extension of duplex DNA. Cell, 28(4), 757-65. PMID: 7046950

21. Moore, C.L., Griffith, J.D. & Shaw, J.E. (1982). Filamentous structures associated with Epstein-Barr virus-infected cells. J Virol, 43(1), 305-13. PMCID: PMC256121

22. Chrysogelos, S. & Griffith, J.D. (1982). *Escherichia coli* single-strand binding protein organizes single-stranded DNA in nucleosome-like units. Proc Natl Acad Sci USA, 79(19), 5803-7. PMCID: PMC346998

23. Moore, C.L., Klevan, L., Wang, J.C., & Griffith, J.D. (1983). Gyrase . DNA complexes visualized as looped structures by electron microscopy. J Biol Chem, 258(7), 4612-7. PMID: 6300092

24. Moore, C.L. & Griffith, J.D. (1983). Mapping restriction sites on large DNAs by electron microscopy. Gene, 24(2-3), 191-8. PMID: 6315536

25. Chrysogelos, S., Register, J.C. 3rd & Griffith, J.D. (1983). The structure of recA protein-DNA filaments. 2 recA protein monomers unwind 17 base pairs of DNA by 11.5 degrees/base pair in the presence of adenosine 5'-O-(3-thiotriphosphate). J Biol Chem, 258(20), 12624-31. PMID: 6313668

26. Manning, M., Moore, M., Spremulli, L., & Griffith, J.D. (1983). Coat protein conformation in M13 filaments, I-forms and spheroids. Biochem Biophys Res Commun, 112(2), 349-55. PMID: 6847652

27. Sperrazza, J.M., Register, J.C. 3rd & Griffith, J.D. (1984). Electron microscopy can be used to measure DNA supertwisting. Gene, 31(1-3), 17-22. PMID: 6098522

28. Griffith, J.D. & Shores, C.G. (1985). RecA protein rapidly crystallizes in the presence of spermidine: a valuable step in its purification and physical characterization. Biochemistry, 24(1), 158-62. PMID: 3888255

29. Manning, M. & Griffith, J.D. (1985). Association of M13 I-forms and spheroids with lipid vesicles. Arch Biochem Biophys, 236(1), 297-303. PMID: 3966795

30. Griffith, J.D. & Formosa, T. (1985). The *uvsX* protein of bacteriophage T4 arranges single-stranded and double-stranded DNA into similar helical nucleoprotein filaments. J Biol Chem, 260(7), 4484-91. PMID: 3156858

31. Griffith, J.D. & Nash, H.A. (1985). Genetic rearrangement of DNA induces knots with a unique topology: implications for the mechanism of synapsis and crossing-over. Proc Natl Acad Sci USA, 82(10), 3124-8. PMCID: PMC397727

32. Register, J.C. 3rd & Griffith, J.D. (1985). 10 nm RecA protein filaments formed in the presence of Mg2+ and ATP gamma S may contain RNA. Mol Gen Genet, 199(3), 415-20. PMID: 2412090

33. Register, J.C. 3rd & Griffith, J.D. (1985). The direction of RecA protein assembly onto single strand DNA is the same as the direction of strand assimilation during strand exchange. J Biol Chem, 260(22), 12308-12. PMID: 3900072

34. Register, J.C. 3rd & Griffith, J.D. (1986). RecA protein filaments can juxtapose DNA ends: an activity that may reflect a function in DNA repair. Proc Natl Acad Sci USA, 83(3), 624-8. PMCID: PMC322916

35. Christiansen, G. & Griffith, J.D. (1986). Visualization of the paranemic joining of homologous DNA molecules catalyzed by the RecA protein of *Escherichia coli*. Proc Natl Acad Sci USA, 83(7), 2066-70. PMCID: PMC323231

36. Griffith, J.D., Bleyman, M., Rauch, C.A., Kitchin, P.A., & Englund, P.T. (1986). Visualization of the bent helix in kinetoplast DNA by electron microscopy. Cell, 46(5), 717-24. PMID: 3742596

37. Griffith, J.D., Hochschild, A. & Ptashne, M. (1986). DNA loops induced by cooperative binding of lambda repressor. Nature, 322(6081), 750-2. PMID: 3748156

38. Register, J.C. 3rd, Christiansen, G. & Griffith, J.D. (1987). Electron microscopic visualization of the RecA protein-mediated pairing and branch migration phases of DNA strand exchange. J Biol Chem, 262(26), 12812-20. PMID: 3305514

39. Harris, L.D. & Griffith, J.D. (1987). Visualization of the homologous pairing of DNA catalyzed by the bacteriophage T4 UvsX protein. J Biol Chem, 262(19), 9285-92. PMID: 3496334

40. Laundon, C.H. & Griffith, J.D. (1987). Cationic metals promote sequence-directed DNA bending. Biochemistry, 26(13), 3759-62. PMID: 3651411

41. Laundon, C.H. & Griffith, J.D. (1988). Curved helix segments can uniquely orient the topology of supertwisted DNA. Cell, 52(4), 545-9. PMID: 2830027

42. Hsieh, C.H. & Griffith, J.D. (1988). The terminus of SV40 DNA replication and transcription contains a sharp sequence-directed curve. Cell, 52(4), 535-44. PMID: 2830026

43. Husain, I., Griffith, J.D. & Sancar, A. (1988). Thymine dimers bend DNA. Proc Natl Acad Sci USA, 85(8), 2558-62. PMCID: PMC280036

44. Ryan, K.A., Shapiro, T.A., Rauch, C.A., Griffith, J.D., & Englund, P.T. (1988). A knotted free minicircle in kinetoplast DNA. Proc Natl Acad Sci USA, 85(16), 5844-8. PMCID: PMC281861

45. Reed, R., Griffith, J.D. & Maniatis, T. (1988). Purification and visualization of native spliceosomes. Cell**,** 53(6), 949-61. PMID: 2968159

46. Register, J.C. 3rd & Griffith, J.D. (1988). Direct visualization of RecA protein binding to and unwinding duplex DNA following the D-loop cycle. J Biol Chem, 263(23), 11029-32. PMID: 3042763

47. Thresher, R.J., Christiansen, G. & Griffith, J.D. (1988). Assembly of presynaptic filaments. Factors affecting the assembly of RecA protein onto single-stranded DNA. J Mol Biol, 201(1), 101-13. PMID: 3418694

48. Shi, Y.B., Griffith, J.D., Gamper, H., & Hearst, J.E. (1988). Evidence for structural deformation of the DNA helix by a psoralen diadduct but not by a monoadduct. Nuc Acids Res, 16, 8945-52. PMCID: PMC338644

49. Brenner, S.L., Zlotnick, A. & Griffith, J.D. (1988). RecA protein self-assembly. Multiple discrete aggregation states. J Mol Biol, 204(4), 959-72. PMID: 3065521

50. Harris, L.D. & Griffith, J.D. (1988). Formation of D loops by the UvsX protein of T4 bacteriophage: a comparison of the reaction catalyzed in the presence or absence of gene 32 protein. Biochemistry, 27(18), 6954-9. PMID: 2973808

51. Harris, L.D. & Griffith, J.D. (1989). UvsY protein of bacteriophage T4 is an accessory protein for in vitro catalysis of strand exchange. J Mol Biol, 206(1), 19-27. PMID: 2522995

52. Su, S.S., Grilley, M., Thresher, R., Griffith, J.D., & Modrich, P. (1989). Gap formation is associated with methyl-directed mismatch correction under conditions of restricted DNA synthesis. Genome, 31(1), 104-11. PMID: 2687086

53. Hsieh, C.H. & Griffith, J.D. (1989). Deletions of bases in one strand of duplex DNA, in contrast to single-base mismatches, produce highly kinked molecules: possible relevance to the folding of single-stranded nucleic acids. Proc Natl Acad Sci USA, 86(13), 4833-7. PMCID: PMC297509

54. Heuser, J. & Griffith, J.D. (1989). Visualization of RecA protein and its complexes with DNA by quick-freeze/deep-etch electron microscopy. J Mol Biol, 210(3), 473-84. PMID: 2693735

55. Thresher, R.J. & Griffith, J.D. (1990). Intercalators promote the binding of RecA protein to double-stranded DNA. Proc Natl Acad Sci USA, 87(13), 5056-60. PMCID: PMC54260

56. Bortner, C. & Griffith, J.D. (1990). Three-stranded paranemic joints: architecture, topological constraints and movement. J Mol Biol, 215(4), 623-34. PMID: 2231723

57. Howard, M.T., Lee, M.P., Hsieh, T.S., & Griffith, J.D. (1991). *Drosophila* topoisomerase II-DNA interactions are affected by DNA structure. J Mol Biol, 217(1), 53-62. PMID: 1846428

58. Wang, Y.H. & Griffith, J.D. (1991). Effects of bulge composition and flanking sequence on the kinking of DNA by bulged bases. Biochemistry, 30(5), 1358-63. PMID: 1991115

59. Topal, M.D., Thresher, R.J., Conrad, M., & Griffith, J.D. (1991). *Nae*I endonuclease binding to pBR322 DNA induces looping. Biochemistry, 30(7), 2006-10. PMID: 1847081

60. Wang, Y.H., Howard, M.T. & Griffith, J.D. (1991). Phased adenine tracts in double-stranded RNA do not induce sequence-directed bending. Biochemistry, 30(22), 5443-9. PMID: 2036412

61. Wang, Y.H., Barker, P. & Griffith, J.D. (1992). Visualization of diagnostic heteroduplex DNAs from cystic fibrosis deletion heterozygotes provides an estimate of the kinking of DNA by bulged bases. J Biol Chem, 267(7), 4911-5. PMID: 1537869

62. Shi, Q., Thresher, R.J., Sancar, A., & Griffith, J.D. (1992). Electron microscopic study of (A)BC excinuclease. DNA is sharply bent in the UvrB-DNA complex. J Mol Biol, 226(2), 425-32. PMID: 1386387

63. Kim, Y.T., Tabor, S., Bortner, C., Griffith, J.D., & Richardson, C.C. (1992). Purification and characterization of the bacteriophage T7 gene 2.5 protein. A single-stranded DNA binding protein. J Biol Chem, 267(21), 15022-31. PMID: 1634538

64. Alani, E., Thresher, R.J., Griffith, J.D., & Kolodner, R.D. (1992). Characterization of DNA-binding and strand-exchange stimulation properties of y-RPA, a yeast single-strand-DNA-binding protein. J Mol Biol, 227(1), 54-71. PMID: 1522601

65. Howard, M.T., Sandman, K., Reeve, J.N., & Griffith, J.D. (1992). HMf, a histone-related protein from the hyperthermophilic archaeon *Methanothermus fervidus*, binds preferentially to DNA containing phased tracts of adenines. J Bacteriol, 174(23), 7864-7. PMCID: PMC207508

66. Pinsince, J.M. & Griffith, J.D. (1992). Early stages in RecA protein-catalyzed pairing. Analysis of coaggregate formation and non-homologous DNA contacts. J Mol Biol, 228(2), 409-20. PMID: 1453452

67. Bortner, C., Hernandez, T.R., Lehman, I.R., & Griffith, J.D. (1993). Herpes simplex virus 1 single-strand DNA binding protein (ICP8) will promote homologous pairing and strand transfer. J Mol Biol, 231(2), 241-50. PMID: 8389882

68. Crooke, E., Thresher, R.J., Hwang, D.S., Griffith, J.D., & Kornberg, A. (1993). Replicatively active complexes of DnaA protein and the *Escherichia coli* chromosomal origin observed in the electron microscope. J Mol Biol, 233(1), 16-24. PMID: 8377183

69. Grilley, M., Griffith, J.D., & Modrich, P. (1993). Bidirectional excision in methyl-directed mismatch repair. J Biol Chem, 268(16), 11830-7. PMID: 8505311

70. Wang, Y.H., Bortner, C.D. & Griffith, J.D. (1993). RecA binding to bulge- and mismatch-containing DNAs. Certain single base mismatches provide strong signals for RecA binding equal to multiple base bulges. J Biol Chem, 268(23), 17571-7. PMID: 8349637

71. Pinsince, J.M., Muench, K.A., Bryant, F.R., & Griffith, J.D. (1993). Two mutant RecA proteins possessing pH-dependent strand exchange activity exhibit pH-dependent presynaptic filament formation. J Mol Biol, 233(1), 59-66. PMID: 8377192

72. Howard, M.T. & Griffith, J.D. (1993). A cluster of strong topoisomerase II cleavage sites is located near an integrated human immunodeficiency virus. J Mol Biol, 232(4), 1060-8. PMID: 8396647

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80. Wang, Y.H. & Griffith, J.D. (1995). Expanded CTG triplet blocks from the myotonic dystrophy gene create the strongest known natural nucleosome positioning elements. Genomics, 25(2), 570-3. PMID: 7789994

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83. Lee, S., Elenbaas, B., Levine, A., & Griffith, J.D. (1995). p53 and its 14 kDa C-terminal domain recognize primary DNA damage in the form of insertion/deletion mismatches. Cell, 81(7), 1013-20. PMID: 7600570

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87. Stanfield-Oakley, S.A. & Griffith, J.D. (1996). Nucleosomal arrangement of HIV-1 DNA: maps generated from an integrated genome and an EBV-based episomal model. J Mol Biol, 256(3), 503-16. PMID: 8604134

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89. Skaliter, R., Makhov, A.M., Griffith, J.D., & Lehman, I.R. (1996). Rolling circle DNA replication by extracts of herpes simplex virus type 1-infected human cells. J Virol, 70(2), 1132-6. PMCID: PMC189921

90. Makhov, A.M., Boehmer, P.E., Lehman, I.R., & Griffith, J.D. (1996). Visualization of the unwinding of long DNA chains by the herpes simplex virus type 1 UL9 protein and ICP8. J Mol Biol, 258(5), 789-99. PMID: 8637010

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98. Kong, D., Griffith, J.D. & Richardson, C.C. (1997). Gene 4 helicase of bacteriophage T7 mediates strand transfer through pyrimidine dimers, mismatches, and nonhomologous regions. Proc Natl Acad Sci USA, 94(7), 2987-92. PMCID: PMC20309

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101. Park, K., Debyser, Z., Tabor, S., Richardson, C.C., & Griffith, J.D. (1998). Formation of a DNA loop at the replication fork generated by bacteriophage T7 replication proteins. J Biol Chem, 273(9), 5260-70. PMID: 9478983

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