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Historical Records of Australian Science

Supplementary Material

Robert Gerard (Gerry) Milton Wake (1933–2020)

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SUPPLEMENTARY MATERIAL

Bibliography: Professor Robert Gerard (Gerry) Milton Wake (1933 – 2020)

- McKenzie, H. A., Smith, M. B. and Wake, R. G. (1955) Molecular weight of ovalbumin of bovine serum albumin in urea solution, *Nature*, **176**(4485), 738-738. doi:10.1038/176738a0
- Glazer, A. N., McKenzie, H. A., and Wake, R. G. (1957) Liberation of tyrosine hydroxyl groups in urea solutions of bovine serum albumin and ovalbumin. *Nature*, **180**(4597), 1286-1287. doi:10.1038/1801286a0
- McKenzie, H. A., and Wake, R. G. (1959) Studies of casein .1. Some observations on the heterogeneity of casein fractions. *Australian Journal of Chemistry*, **12**(4), 712-722. doi:10.1071/ch9590712
- McKenzie, H. A., and Wake, R. G. (1959) Studies of casein. 2. Moving boundary electrophoresis of casein fractions with particular reference to α -casein. *Australian Journal of Chemistry*, **12**(4), 723-733. doi:10.1071/ch9590723
- McKenzie, H. A., and Wake, R. G. (1959). Studies of casein. 3. The molecular size of α -, β -, and κ -casein, *Australian Journal of Chemistry*, **12**(4), 734-742. doi:10.1071/ch9590734
- Wake, R. G., and Baldwin, R. L. (1960) Gel electrophoresis: its application to analysis of the caseins, *Food Technology*, **14**(6), B36-B36
- McKenzie, H. A., and Wake, R. G. (1961) An improved method for isolation of κ -casein, *Biochimica et Biophysica Acta*, **47**(2), 240-242. doi:10.1016/0006-3002(61)90281-5
- Wake, R. G., and Baldwin, R. L. (1961) Analysis of casein fractions by zone electrophoresis in concentrated urea, *Biochimica et Biophysica Acta*, **47**(2), 225-239. doi:10.1016/0006-3002(61)90280-3
- Cecil, R., and Wake, R. G. (1962). Reactions of inter- and intra-chain disulphide bonds in proteins with sulphite, *Biochemical Journal*, **82**(3), 401-406. doi:10.1042/bj0820401
- Wake, R. G., and Baldwin, R. L. (1962) Physical studies on replication of DNA in vitro, *Journal of Molecular Biology*, **5**(2), 201-216. doi:10.1016/s0022-2836(62)80084-9
- Glazer, A. N., McKenzie, H. A., and Wake, R. G. (1963) Denaturation of proteins. 2. Ultraviolet absorption spectra of bovine serum albumin and ovalbumin in urea in acid solution, *Biochimica et Biophysica Acta*, **69**(2), 240-248. doi:10.1016/0006-3002(63)91257-5
- McKenzie, H. A., Wake, R. G., and Smith, M. B. (1963) Denaturation of proteins. 1. Sedimentation, diffusion, optical rotation, viscosity and gelation in urea solutions of ovalbumin and bovine serum albumin, *Biochimica et Biophysica Acta*, **69**(2), 222-239. doi:10.1016/0006-3002(63)91256-3
- Wake, R. G. (1963) Sequential replication of DNA in synchronously germinating *Bacillus subtilis* spores, *Biochemical and Biophysical Research Communications*, **13**(1), 67-70. doi:10.1016/0006-291X(63)90164-5
- Mackinlay, A. G., and Wake, R. G. (1964) Heterogeneity of kappa-casein, *Biochimica et Biophysica Acta*, **93**(2), 378-386. doi:10.1016/0304-4165(64)90388-5
- Dennis, E. S., and Wake, R. G. (1965) Clotting of milk by proteolytic enzymes. *Biochimica et Biophysica Acta*, **97**(1), 159-162. doi:10.1016/0304-4165(65)90285-0

- Mackinlay, A. G., and Wake, R. G. (1965) Fractionation of S-carboxymethyl-kappa-casein characterization of components, *Biochimica et Biophysica Acta*, **104**(1), 167-180. doi:10.1016/0304-4165(65)90232-1
- Dennis, E., and Wake, R. (1966) Autoradiography of the *Bacillus subtilis* chromosome, *Journal of Molecular Biology*, **15**(2), 435-439. doi:10.1016/s0022-2836(66)80119-5
- Mackinlay, A. G., Hill, R. J., and Wake, R. G. (1966) Action of rennin on γ -casein. The heterogeneity and origin of the insoluble products, *Biochimica et Biophysica Acta*, **115**(1), 103-112. doi:10.1016/0304-4165(66)90054-7
- Armstrong, C. E., Mackinlay, A. G., Hill, R. J., and Wake, R. G. (1967) The action of rennin on alpha-casein - heterogeneity origin of soluble product, *Biochimica et Biophysica Acta*, **140**(1), 123-131. doi:10.1016/0005-2795(67)90386-8
- Wake, R. G. (1967) A study of possible extent of synthesis of repair DNA during germination of *Bacillus subtilis* spores, *Journal of Molecular Biology*, **25**(2), 217-234. doi:10.1016/0022-2836(67)90139-8
- Goldring, E. S., and Wake, R. G. (1968) A comparison of segregation of chromosomes within microcolonies developing from single *Bacillus subtilis* and *Bacillus megaterium* spores, *Journal of Molecular Biology*, **35**(3), 647-650. doi:10.1016/s0022-2836(68)80022-1
- Dennis, E., and Wake, R. (1968) The *Bacillus subtilis* genome: Studies on its size structure, *Proceedings of the Conference: Replication recombination of Genetic Material. Australian Academy of Science*, 61-65.
- Hill, R. J., and Wake, R. G. (1969) Further studies on the origin and nature of the bovine para- κ -casein components, *Biochimica et Biophysica Acta*, **175**(2), 419-426. doi:10.1016/0005-2795(69)90021-x
- Hill, R. J., and Wake, R. G. (1969) Amphiphile nature of κ -casein as the basis for its micelle stabilizing property, *Nature*, **221**(5181), 635-639. doi:10.1038/221635a0
- Nagley, P., and Wake, R. G. (1969) Effect of 5-bromouracil on the pattern of deoxyribonucleic acid replication in germinating *Bacillus subtilis* spores, *Journal of Molecular Biology*, **43**(3), 619-630. doi:10.1016/0022-2836(69)90363-5
- Hill, R. J., and Wake, R. G. (1970) Preparative gel electrophoresis in two pH stages, *Analytical Biochemistry*, **36**(2), 521-524. doi:10.1016/0003-2697(70)90388-x
- Hill, R. J., Naughton, M. A., and Wake, R. G. (1970) The major genetic variant macropeptides of kappa-casein - a comparison of their amino acid contents and tryptic peptides, *Biochimica et Biophysica Acta*, **200**, 267-274. doi:10.1016/0005-2795(70)90170-4
- Wake, R. G. (1972). Visualization of reinitiated chromosomes in *Bacillus subtilis*, *Journal of Molecular Biology*, **68**(3), 501- 509. doi.org/10.1016/0022-2836(72)90102-7
- Wake, R. G., Kaiser, A. D., and Inman, R. B. (1972) Isolation structure of phage λ head-mutant DNA, *Journal of Molecular Biology*, **64**(3), 519-540. doi:10.1016/0022-2836(72)90080-0
- Gyurasits, E. B., and Wake, R. G. (1973) Bidirectional chromosome replication in *Bacillus subtilis*. *Journal of Molecular Biology*, **73**(1), 55-63. doi:10.1016/0022-2836(73)90158-7
- Upcroft, P., Dyson, H. J., and Wake, R. G. (1973). Involvement of RNA-synthesis in initiation of DNA-replication in *Bacillus subtilis*, *Proceedings of the Australian Biochemical Society*, **6**, 59-59.

- Wake, R. G. (1973). Circularity of *Bacillus subtilis* chromosome and further studies on its bidirectional replication, *Journal of Molecular Biology*, **77**(4), 569-575. doi:10.1016/0022-2836(73)90223-4
- Callister, H., and Wake, R. G. (1974) Completed chromosomes in thymine-requiring *Bacillus subtilis* spores, *Journal of Bacteriology*, **120**(2), 579-582. doi:10.1128/jb.120.2.579-582.1974
- Wake, R. G. (1974). Termination of *Bacillus subtilis* chromosome replication as visualized by autoradiography, *Journal of Molecular Biology*, **86**(2), 223-231. doi:10.1016/0022-2836(74)90014-x
- Upcroft, P., Dyson, H. J., and Wake, R. G. (1975) Characteristics of a *Bacillus subtilis* W23 mutant temperature sensitive for initiation of chromosome replication, *Journal of Bacteriology*, **121**(1), 121-127. doi:10.1128/jb.121.1.121-127.1975
- Burnett, L., and Wake, R. G. (1976). Extent of bidirectional replication in *Bacillus subtilis*, *Proceedings of the Australian Biochemical Society*, **9**, 46-46
- Callister, H., and Wake, R. G. (1976) Homogeneity in *Bacillus subtilis* spore DNA content, *Journal of Molecular Biology*, **102**(2), 367-371. doi:10.1016/0022-2836(76)80060-5
- Wake, R. G. (1976) Segregation of *Bacillus subtilis* chromosomes radioactively labelled during 1st round of replication after germination of spores, *Journal of Bacteriology*, **127**(1), 433-439. doi:10.1128/jb.127.1.433-439.1976
- Burnett, L., and Wake, R. G. (1977) Initiation and termination of chromosome-replication at 45 degrees C in a temperature-sensitive deoxyribonucleic-acid initiation mutant of *Bacillus subtilis* 168, tsb134, *Journal of Bacteriology*, **130**(1), 538-539. doi:10.1128/jb.130.1.538-539.1977
- Callister, H., Le Mesurier, S., and Wake, R. G. (1977). Initiation of deoxyribonucleic-acid replication in germinating spores of *Bacillus subtilis* 168 carrying dnaB (Ts)134 mutation, *Journal of Bacteriology*, **130**(3), 1030-1037. doi:10.1128/jb.130.3.1030-1037.1977
- Callister, H., and Wake, R. G. (1977) Completion of replication division cycle in temperature-sensitive DNA initiation mutants of *Bacillus subtilis*-168 at the non-permissive temperature, *Journal of Molecular Biology*, **117**(1), 71-84. doi:10.1016/0022-2836(77)90023-7
- Le Mesurier, S., Callister, H., and Wake, R. G. (1977) Initiation of DNA-replication in germinating *Bacillus subtilis* spores - involvement of DNA-b134 gene product, *Proceedings of the Australian Biochemical Society*, **10**, 61-61.
- McGinness, T., and Wake, R. G. (1978) Normal division septation before completion of 1st round of replication after germination of *Bacillus subtilis* spores, *Proceedings of the Australian Biochemical Society*, **11**, 85-85.
- Mira, M., and Wake, R. G. (1978) Timing of events related to 1st round of replication after germination of *Bacillus subtilis* spores - action of the dnab134 gene product, *Proceedings of the Australian Biochemical Society*, **11**, 73-73
- McGinness, T., and Wake, R. G. (1979) Completed *Bacillus subtilis* nucleoid as a doublet structure, *Journal of Bacteriology*, **140**(2), 730-733. doi:10.1128/jb.140.2.730-733.1979
- McGinness, T., and Wake, R. G. (1979) Division septation in the absence of chromosome termination in *Bacillus subtilis*, *Journal of Molecular Biology*, **134**(2), 251-264. doi:10.1016/0022-2836(79)90035-4
- McGinness, T., and Wake, R. G. (1979) Completed, non-replicating *Bacillus subtilis* nucleoid as a doublet structure, *Proceedings of the Australian Biochemical Society*, **12**, 91-91.

- Adams, R. T., and Wake, R. G. (1980) Highly specific labelling of the *Bacillus subtilis* chromosome terminus, *Journal of Bacteriology*, **143**(2), 1036-1038. doi:10.1128/jb.143.2.1036-1038.1980
- Weiss, A. S., Adams, R. T., and Wake, R. G. (1980) Labelling the chromosome terminus of *Bacillus subtilis*, *Proceedings of the Australian Biochemical Society*, **13**, 97-97.
- Callister, H., and Wake, R. G. (1981) Characterization and mapping of temperature-sensitive division initiation mutations of *Bacillus subtilis*, *Journal of Bacteriology*, **145**(2), 1042-1051. doi:10.1128/jb.145.2.1042-1051.1981
- McGinness, T., and Wake, R. G. (1981) A fixed amount of chromosome-replication needed for premature division septation in *Bacillus subtilis*, *Journal of Molecular Biology*, **146**(1), 173-177. doi:10.1016/0022-2836(81)90373-9
- McGinness, T., Callister, H., and Wake, R. G. (1981) Characterization of division initiation mutants of *Bacillus subtilis*, *Proceedings of the Australian Biochemical Society*, **14**, 80-80.
- Wake, R. G. (1981) *Bacillus subtilis*: some contributions to molecular-biology, *Proceedings of the Australian Biochemical Society*, **14**, P1-P2.
- Weiss, A. S., Hariharan, I. K., and Wake, R. G. (1981) Analysis of the terminus region of the *Bacillus subtilis* chromosome, *Nature*, **293**(5834), 673-675. doi:10.1038/293673a0
- Weiss, A. S., Hariharan, I. K., and Wake, R. G. (1981) Characterization of the terminus of the *Bacillus subtilis* chromosome, *Proceedings of the Australian Biochemical Society*, **14**, 78-78
- Hariharan, I. K., Czolij, R., and Wake, R. G. (1982) Conformation and segregation of nucleoids accompanying cell length extension after completion of a single round of DNA-replication in germinated outgrowing *Bacillus subtilis* spores, *Journal of Bacteriology*, **150**(2), 861-869. doi:10.1128/jb.150.2.861-869.1982
- Callister, H., McGinness, T., and Wake, R. G. (1983) Timing other features of the action of the ts1 division initiation gene-product of *Bacillus subtilis*, *Journal of Bacteriology*, **154**(2), 537-546. doi:10.1128/jb.154.2.537-546.1983
- Weiss, A. S., Smith, M. T., Iismaa, T. P., and Wake, R. G. (1983) Cloning DNA from the replication terminus region of the *Bacillus subtilis* chromosome. *Gene*, **24**(1), 83-91. doi:10.1016/0378-1119(83)90133-6
- Weiss, A. S., and Wake, R. G. (1983) Restriction map of DNA spanning the replication terminus of the *Bacillus subtilis* chromosome, *Journal of Molecular Biology*, **171**(2), 119-137. doi:10.1016/s0022-2836(83)80349-0
- Weiss, A. S., Smith, M. T., Iismaa, T. P., and Wake, R. G. (1983) Mapping and cloning DNA from the terminus region of the *Bacillus subtilis* chromosome and the manner of replication fork approach at termination, *Proceedings of the Australian Biochemical Society*, **15**, 72-72.
- Iismaa, T. P., Smith, M. T., and Wake, R. G. (1984) Physical map of the *Bacillus subtilis* replication terminus region - its confirmation, extension and genetic orientation, *Gene*, **32**(1-2), 171-180. doi:10.1016/0378-1119(84)90045-3
- Iismaa, T. P., Smith, M. T., and Wake, R. G. (1984) Confirmation, extension and genetic orientation of the physical map of the *Bacillus subtilis* replication terminus region, *Proceedings of the Australian Biochemical Society*, **16**, 2-2.
- Weiss, A. S., and Wake, R. G. (1984) A unique DNA intermediate associated with termination of chromosome-replication in *Bacillus subtilis*, *Cell*, **39**(3), 683-689. doi:10.1016/0092-8674(84)90475-6
- Weiss, A. S., and Wake, R. G. (1984) Impediment to replication fork movement in the terminus region of the *Bacillus subtilis* chromosome, *Journal of Molecular Biology*, **179**(4), 745-750. doi:10.1016/0022-2836(84)90165-7

- Smith, M. T., Aynsley, C., and Wake, R. G. (1985) Cloning and localization of the *Bacillus subtilis* chromosome-replication terminus, *terC*, *Gene*, **38**(1-3), 9-17. doi:10.1016/0378-1119(85)90198-2
- Rowe, D. B., Iismaa, T. P., and Wake, R. G. (1986) Nonrandom cosmid cloning and prophage SP-beta homology near the replication terminus of the *Bacillus subtilis* chromosome, *Journal of Bacteriology*, **167**(1), 379-382. doi:10.1128/jb.167.1.379-382.1986
- Weiss, A. S., Wake, R. G., and Inman, R. B. (1986) An immobilized fork as a termination of replication intermediate in *Bacillus subtilis*, *Journal of Molecular Biology*, **188**(2), 199-205. doi:10.1016/0022-2836(86)90304-9
- Carrigan, C. M., Haarsma, J. A., Smith, M. T., and Wake, R. G. (1987) Sequence features of the replication terminus of the *Bacillus subtilis* chromosome, *Nucleic Acids Research*, **15**(20), 8501-8509. doi:10.1093/nar/15.20.8501
- Hanley, P. J. B., Carrigan, C. M., Rowe, D. B., and Wake, R. G. (1987) Breakdown and quantitation of the forked termination of replication intermediate of *Bacillus subtilis*, *Journal of Molecular Biology*, **196**(3), 721-727. doi:10.1016/0022-2836(87)90043-x
- Iismaa, T. P., and Wake, R. G. (1987) The normal replication terminus of the *Bacillus subtilis* chromosome, *terC*, is dispensable for vegetative growth and sporulation, *Journal of Molecular Biology*, **195**(2), 299-310. doi:10.1016/0022-2836(87)90651-6
- Wake, R. G. (1988, May 22-25) *Termination of chromosome-replication in Bacillus subtilis*. Paper presented at the Conf on the Organization of the Bacterial Chromosome, Callaway Gardens, Ga.
- Smith, M. T., and Wake, R. G. (1988) DNA sequence requirements for replication fork arrest at *terC* in *Bacillus subtilis*, *Journal of Bacteriology*, **170**(9), 4083-4090. doi:10.1128/jb.170.9.4083-4090.1988
- Iismaa, T. P., Carrigan, C. M., and Wake, R. G. (1988) Relocation of the replication terminus, *terC*, of *Bacillus subtilis* to a new chromosomal site, *Gene*, **67**(2), 183-191. doi:10.1016/0378-1119(88)90395-2
- Smith, M. T., and Wake, R. G. (1989) Expression of the *rtp* gene of *Bacillus subtilis* is required for replication fork arrest at the chromosome terminus, *Gene*, **85**(1), 187-192. doi:10.1016/0378-1119(89)90479-4
- Williams, N. K., and Wake, R. G. (1989) Sequence limits of DNA strands in the arrested replication fork at the *Bacillus subtilis* chromosome terminus, *Nucleic Acids Research*, **17**(23), 9947-9956. doi:10.1093/nar/17.23.9947
- Harry, E. J., and Wake, R. G. (1989) Cloning expression of a *Bacillus subtilis* division initiation gene for which a homolog has not been identified in another organism, *Journal of Bacteriology*, **171**(12), 6835-6839. doi:doi.org/10.1128/jb.171.12.6835-6839.1989
- Lewis, P. J., Smith, M. T., and Wake, R. G. (1989) A protein involved in termination of chromosome replication in *Bacillus subtilis* binds specifically to the *terC*, site, *Journal of Bacteriology*, **171**(6), 3564-3567. doi:10.1128/jb.171.6.3564-3567.1989
- Lewis, P. J., and Wake, R. G. (1989) DNA and protein sequence conservation at the replication terminus in *Bacillus subtilis* 168 and W23, *Journal of Bacteriology*, **171**(3), 1402-1408. doi:10.1128/jb.171.3.1402-1408.1989
- Williams, N. K., Simpson, R. J., Moritz, R. L., Peide, Y., Crofts, L., Minasian, E., Leach S., J., Wake R. G., Christopherson, R. I. (1990). Location of the dihydroorotate domain within trifunctional hamster dihydroorotate synthetase, *Gene*, **94**(2), 283-288. doi:10.1016/0378-1119(90)90399-c

- Lewis, P. J., Ralston, G. B., Christopherson, R. I., and Wake, R. G. (1990) Identification of the replication terminator protein-binding sites in the terminus region of the *Bacillus subtilis* chromosome and stoichiometry of the binding, *Journal of Molecular Biology*, **214**(1), 73-84. doi:10.1016/0022-2836(90)90147-e
- Carrigan, C. M., Pack, R. A., Smith, M. T., and Wake, R. G. (1991) Normal terC-region of the *Bacillus subtilis* chromosome acts in a polar manner to arrest the clockwise replication fork, *Journal of Molecular Biology*, **222**(2), 197-207. doi:10.1016/0022-2836(91)90206-l
- Lewis, P. J., and Wake, R. G. (1991) Termination of chromosome-replication in *Bacillus subtilis*, *Research in Microbiology*, **142**(7-8), 893-900. doi:10.1016/0923-2508(91)90070-q
- Errington, J., and Wake, R. G. (1991) Chromosome strand segregation during sporulation in *Bacillus subtilis*, *Molecular Microbiology*, **5**(5), 1145-1149. doi:10.1111/j.1365-2958.1991.tb01887.x
- Kralicek, A. V., Day, A. J., Wake, R. G., and King, G. F. (1991) A sequence similarity between proteins involved in initiation and termination of bacterial chromosome-replication, *Biochemical Journal*, **275**, 823-823. doi:10.1042/bj2750823
- Ahn, K. S., and Wake, R. G. (1991) Variations and coding features of the sequence spanning the replication terminus of *Bacillus subtilis* 168 and W23-chromosomes, *Gene*, **98**(1), 107-112. doi:10.1016/0378-1119(91)90111-n
- Smith, M. T., and Wake, R. G. (1992) Definition and polarity of action of DNA-replication terminators in *Bacillus subtilis*, *Journal of Molecular Biology*, **227**(3), 648-657. doi:10.1016/0022-2836(92)90214-5
- Langley, D. B., Smith, M. T., Lewis, P. J., and Wake, R. G. (1993) Protein-nucleoside contacts in the interaction between the replication terminator protein of *Bacillus subtilis* and the DNA terminator. *Molecular Microbiology*, **10**(4), 771-779. doi:10.1111/j.1365-2958.1993.tb00947.x
- Ahn, K. S., Malo, M. S., Smith, M. T., and Wake, R. G. (1993) Autoregulation of the gene encoding the replication terminator protein of *Bacillus subtilis*. *Gene*, **132**(1), 7-13. doi:10.1016/0378-1119(93)90508-z
- Kralicek, A. V., Vesper, N. A., Ralston, G. B., Wake, R. G., and King, G. F. (1993) Symmetry and secondary structure of the replication terminator protein of *Bacillus subtilis* - sedimentation equilibrium and circular dichroic, infrared, and NMR spectroscopic studies, *Biochemistry*, **32**(38), 10216-10223. doi:10.1021/bi00089a043
- Harry, E. J., Stewart, B. J., and Wake, R. G. (1993) Characterization of mutations in *div1B* of *Bacillus subtilis* and cellular-localization of the Div1B protein. *Molecular Microbiology*, **7**(4), 611-621. doi:10.1111/j.1365-2958.1993.tb01152.x
- Harry, E. J., Partridge, S. R., Weiss, A. S., and Wake, R. G. (1994) Conservation of the 168-*div1B* gene in *Bacillus subtilis* W23 and *B. licheniformis*, and evidence for homology to *ftsQ* of *Escherichia coli*, *Gene*, **147**(1), 85-89. doi:10.1016/0378-1119(94)90043-4
- Smith, M. T., Langley, D. B., Young, P. A., and Wake, R. G. (1994) The minimal sequence needed to define a functional DNA terminator in *Bacillus subtilis*, *Journal of Molecular Biology*, **241**(3), 335-340. doi:10.1006/jmbi.1994.1510
- Young, P. A., and Wake, R. G. (1994) The *Bacillus subtilis* replication terminator system functions in *Escherichia coli*, *Journal of Molecular Biology*, **240**(4), 275-280. doi:10.1006/jmbi.1994.1444
- Harry, E. J., Rowland, S. L., Malo, M. S., and Wake, R. G. (1994) Expression of *div1B* of *Bacillus subtilis* during vegetative growth. *Journal of Bacteriology*, **176**(4), 1172-1179. doi:10.1128/jb.176.4.1172-1179.1994

- Rowland, S. L., Errington, J., and Wake, R. G. (1995) The *Bacillus subtilis* cell-division 135-137-degrees region contains an essential orf with significant similarity to murB and a dispensable sbp gene, *Gene*, **164**(1), 113-116. doi:10.1016/0378-1119(95)00467-k
- Wu, L. J., Franks, A. H., and Wake, R. G. (1995) Replication through the terminus region of the *Bacillus subtilis* chromosome is not essential for the formation of a division septum that partitions the DNA, *Journal of Bacteriology*, **177**(19), 5711-5715. doi:10.1128/jb.177.19.5711-5715.1995
- Franks, A. H., Griffiths, A. A., and Wake, R. G. (1995) Identification and characterization of new DNA-replication terminators in *Bacillus subtilis*. *Molecular Microbiology*, **17**(1), 13-23. doi:10.1111/j.1365-2958.1995.mmi_17010013.x
- Partridge, S. R., and Wake, R. G. (1995) FtsZ and nucleoid segregation during outgrowth of *Bacillus subtilis* spores, *Journal of Bacteriology*, **177**(9), 2560-2563. doi:10.1128/jb.177.9.2560-2563.1995
- Smith, M. T., Langley, D. B., Young, P. A., and Wake, R. G. (1995) The minimal sequence needed to define a functional DNA terminator in *Bacillus subtilis*, (1994) *Journal of Molecular Biology*, **247**(2), 373-373. doi:10.1006/jmbi.1994.1510
- Wake, R. G., Smith, M. T., Langley, D. B., Franks, A. H., Young, P. A., and Griffiths, A. (1995) How can a symmetrical dimer of a replication terminator protein bound to a chromosomal terminator cause polar arrest of a replication fork. *Journal of Cellular Biochemistry*, 120-120 no doi.
- Wake, R. G., and Errington, J. (1995) Chromosome partitioning in bacteria, *Annual Review of Genetics*, **29**, 41-67 doi: 10.1146/annurev.ge.29.120195.000353
- Wake, R. G. (1996) DNA replication - tussle with a terminator, *Nature*, **383**(6601), 582-583. doi:10.1038/383582a0
- Smith, M. T., DeVries, C. J., Langley, D. B., King, G. F., and Wake, R. G. (1996) The *Bacillus subtilis* DNA replication terminator, *Journal of Molecular Biology*, **260**(1), 54-69. doi:10.1006/jmbi.1996.0381
- Franks, A. H., and Wake, R. G. (1996) Replication fork arrest at relocated replication terminators on the *Bacillus subtilis* chromosome, *Journal of Bacteriology*, **178**(14), 4258-4265. doi:10.1128/jb.178.14.4258-4265.1996
- Meijer, W. J. J., Smith, M., Wake, R. G., deBoer, A. L., Venema, G., and Bron, S. (1996) Identification and characterization of a novel type of replication terminator with bidirectional activity on the *Bacillus subtilis* theta plasmid pls20, *Molecular Microbiology*, **19**(6), 1295-1306. doi:10.1111/j.1365-2958.1996.tb02474.x
- Katis, V. L., Harry, E. J., and Wake, R. G. (1997) The *Bacillus subtilis* division protein divIC is a highly abundant membrane-bound protein that localizes to the division site, *Molecular Microbiology*, **26**(5), 1047-1055. doi:10.1046/j.1365-2958.1997.6422012.x
- Wake, R. G. (1997) Replication fork arrest termination of chromosome replication in *Bacillus subtilis*, *FEMS Microbiology Letters*, **153**(2), 247-254. doi:10.1016/s0378-1097(97)00245-0
- Harry, E. J., and Wake, R. G. (1997) The membrane-bound cell division protein divIB is localized to the division site in *Bacillus subtilis*, *Molecular Microbiology*, **25**(2), 275-283. doi:10.1046/j.1365-2958.1997.4581822.x
- Griffiths, A. A., and Wake, R. G. (1997) Search for additional replication terminators in the *Bacillus subtilis* 168 chromosome, *Journal of Bacteriology*, **179**(10), 3358-3361. doi:10.1128/jb.179.10.3358-3361.1997

- Kralicek, A. V., Wilson, P. K., Ralston, G. B., Wake, R. G., and King, G. F. (1997) Reorganization of terminator DNA upon binding replication terminator protein: Implications for the functional replication fork arrest complex, *Nucleic Acids Research*, **25**(3), 590-596. doi:10.1093/nar/25.3.590
- Wake, R. G., and King, G. F. (1997) A tale of two terminators: Crystal structures sharpen the debate on DNA replication fork arrest mechanisms, *Structure*, **5**(1), 1-5. doi:10.1016/s0969-2126(97)00160-3
- Rowland, S. L., Katis, V. L., Partridge, S. R., and Wake, R. G. (1997) DivIB, ftsZ cell division in *Bacillus subtilis*, *Molecular Microbiology*, **23**(2), 295-302. doi: 10.1046/j.1365-2958.1997.2141580.x.
- Daniel, R. A., Harry, E. J., Katis, V. L., Wake, R. G., and Errington, J. (1998) Characterization of the essential cell division gene *ftsL* (*yldD*) of *Bacillus subtilis* and its role in the assembly of the division apparatus, *Molecular Microbiology*, **29**(2), 593-604. doi:10.1046/j.1365-2958.1998.00954.x
- Griffiths, A., Andersen, P. A., and Wake, R. G. (1998) Replication terminator protein-based replication fork-arrest systems in various *Bacillus* species. *Journal of Bacteriology*, **180**(13), 3360-3367. doi:10.1128/jb.180.13.3360-3367.1998
- Harry, E. J., Rodwell, J., and Wake, R. G. (1999) Co-ordinating DNA replication with cell division in bacteria: a link between the early stages of a round of replication and mid-cell Z ring assembly, *Molecular Microbiology*, **33**(1), 33-40. doi:10.1046/j.1365-2958.1999.01439.x
- Katis, V. L., and Wake, R. G. (1999) Membrane-bound division proteins DivIB and DivIC of *Bacillus subtilis* function solely through their external domains in both vegetative and sporulation division, *Journal of Bacteriology*, **181**(9), 2710-2718. doi:10.1128/jb.181.9.2710-2718.1999
- Duggin, I. G., Andersen, P. A., Smith, M. T., Wilce, J. A., King, G. F., and Wake, R. G. (1999) Site-directed mutants of RTP of *Bacillus subtilis* and the mechanism of replication fork arrest, *Journal of Molecular Biology*, **286**(5), 1325-1335. doi:10.1006/jmbi.1999.2553
- Regamey, A., Harry, E. J., and Wake, R. G. (2000) Mid-cell Z ring assembly in the absence of entry into the elongation phase of the round of replication in bacteria: co-ordinating chromosome replication with cell division, *Molecular Microbiology*, **38**(3), 423-434. doi:10.1046/j.1365-2958.2000.02130.x
- Andersen, P. A., Griffiths, A. A., Duggin, I. G., and Wake, R. G. (2000) Functional specificity of the replication fork-arrest complexes of *Bacillus subtilis* and *Escherichia coli*: significant specificity for Tus-Ter functioning in *E. coli*, *Molecular Microbiology*, **36**(6), 1327-1335. doi:10.1046/j.1365-2958.2000.01945.x
- Katis, V. L., Wake, R. G., and Harry, E. J. (2000) Septal localization of the membrane-bound division proteins of *Bacillus subtilis* divIB divIC is codependent only at high temperatures and requires FtsZ, *Journal of Bacteriology*, **182**(12), 3607-3611. doi:10.1128/jb.182.12.3607-3611.2000
- Griffiths, A. A., and Wake, R. G. (2000) Utilization of subsidiary chromosomal replication terminators in *Bacillus subtilis*, *Journal of Bacteriology*, **182**(5), 1448-1451. doi:10.1128/jb.182.5.1448-1451.2000
- Wilce, J. A., Vivian, J. P., Hastings, A. F., Otting, G., Folmer, R. H. A., Duggin, I. G., Wake, R. G., and Wilce, M. C. J. (2001). Structure of the RTP-DNA complex the mechanism of polar replication fork arrest., *Nature Structural Biology*, **8**(3), 206-210. doi:10.1038/84934

- Migocki, M. D., Freeman, M. K., Wake, R. G., and Harry, E. J. (2002) The Min system is not required for precise placement of the midcell Z ring in *Bacillus subtilis*. *EMBO Reports*, **3**(12), 1163-1167. doi:10.1093/EMBO-reports/kvf233
- Vivian, J. P., Hastings, A. F., Duggin, I. G., Wake, R. G., Wilce, M. C. J., and Wilce, J. A. (2003) The impact of single cysteine residue mutations on the replication terminator protein, *Biochemical and Biophysical Research Communications*, **310**(4), 1096-1103. doi:10.1016/j.bbrc.2003.09.126
- Migocki, M. D., Lewis, P. J., Wake, R. G., and Harry, E. J. (2004) The midcell replication factory in *Bacillus subtilis* is highly mobile: Implications for coordinating chromosome replication with other cell cycle events, *Molecular Microbiology*, **54**(2), 452-463. doi:10.1111/j.1365-2958.2004.04267.x
- Hastings, A. F., Otting, G., Folmer, R. H. A., Duggin, I. G., Wake, R. G., Wilce, M. C. J., and Wilce, J. A. (2005) Interaction of the replication terminator protein of *Bacillus subtilis* with DNA probed by NMR spectroscopy, *Biochemical and Biophysical Research Communications*, **335**(2), 361-366. doi:10.1016/j.bbrc.2005.07.082
- Duggin, I. G., Matthews, J. M., Dixon, N. E., Wake, R. G., and Mackay, J. P. (2005) A complex mechanism determines polarity of DNA replication fork arrest by the replication terminator complex of *Bacillus subtilis*, *Journal of Biological Chemistry*, **280**(13), 13105-13113. doi:10.1074/jbc.M414187200
- Huang, D. T., Kaplan, J., Menz, R. I., Katis, V. L., Wake, R. G., Zhao, F., Wolfenden, R., Christopherson, R. I. (2006) Thermodynamic analysis of catalysis by the dihydroorotases from hamster and *Bacillus caldolyticus*, as compared with the uncatalyzed reaction, *Biochemistry*, **45**(27), 8275-8283. doi:10.1021/bi060595w
- Duggin, I. G., Wake, R. G., Bell, S. D., and Hill, T. M. (2008) The replication fork trap and termination of chromosome replication, *Molecular Microbiology*, **70**(6), 1323-1333. doi:10.1111/j.1365-2958.2008.06500.x