



Curriculum Vitae

Prof. dr hab. Grzegorz Węgrzyn

Current affiliation and official address:

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Education, degrees and academic titles

- Studies – 1982-1987, Biology, specialty: Molecular Biology, University of Gdansk (Poland), Faculty of Biology, Geography and Oceanology
- MSc – 1987, Biology, specialty: Molecular Biology, University of Gdansk (Poland), Faculty of Biology, Geography and Oceanology
- PhD – 1991, Biological Sciences (Biology), specialty: Molecular Biology; University of Gdansk (Poland), Faculty of Biology, Geography and Oceanology
- Habilitation (D.Sc.) – 1995, Biological Sciences (Biology), specialty: Molecular Genetics; University of Gdansk (Poland), Faculty of Biology, Geography and Oceanology
- Professor (title; Biological Sciences) – 1998, University of Gdansk (Poland), Faculty of Biology, Geography and Oceanology

Foreign scientific scholarships and residences

- Chair of Biochemistry, University of Nottingham Medical School, Great Britain – 1991
- Molecular Genetics Center, University of California, San Diego, USA – 1992

Career/employment

- Research Assistant – 1987-1992, Department of Molecular Biology, Faculty of Biology, University of Gdansk
- Lecturer (Adiunkt) – 1992-1996, Department of Molecular Biology, Faculty of Biology, University of Gdansk
- Assistant Professor – 1996-1997, Department of Molecular Biology, Faculty of Biology, University of Gdansk
- Associate Professor – 1997-1999, Department of Molecular Biology, Faculty of Biology, University of Gdansk
- Professor – od 1999, Department of Molecular Biology, Faculty of Biology, University of Gdansk

Other employments or functions

- Part time – 2000-2008, Sea Biology Centre of the Polish Academy of Sciences, Oceanology Institute of the Polish Academy of Sciences

- Scientific coordinator at Laboratory of Molecular Biology in the Institute of Biochemistry and Biophysics of the Polish Academy of Sciences by the University of Gdansk – 1997-2012

Academic functions

- Head of Laboratory of Molecular Genetics of University of Gdansk – 1996-present
- Head of Department of Molecular Biology of University of Gdansk – 1996-present
- Dean of Faculty of Biology, Geography and Oceanology of University of Gdansk – 2002-2008
- Vice-President for Research Affairs of University of Gdansk – 2008-present

Academic staff education

- 37 PhDs promoted, 6 Assistant Professors guided

Membership and Functions in Professional Organizations

- Member of the Polish Biochemical Society – 1991-present
- Member of Polish Genetic Society – 1991-present, President of the Gdansk Branch – 1996-2001, Member of the Main Council – 2001-2004, President – 2004-2007
- Member of American Society for Biochemistry and Molecular Biology – 2003-present
- Member of International Society for Plasmid Biology – 2003-present

Expert experience (academic)

- Over 300 publications critically reviewed in the international peer-reviewed scientific journals as well as numerous Polish and foreign grant applications reviewed.

Editorial experience

Editor of scientific journals

- FEMS Microbiology Reviews
- Plasmid
- Microbial Cell Factories
- Acta Biochimica Polonica Editor-in-Chief – 2009-present

Member of Editorial Boards

- Journal of Applied Genetics
- Journal of Biomolecular Screening
- Metabolic Brain Disease
- Oceanologia

Honors and Awards

- PhD thesis awarded by the President of the University of Gdansk – 1992, Gdansk
- Award (scholarship) of the Foundation for Polish Science for Outstanding Young Scientists – 1993, Warsaw
- Prizes of the Polish Biochemical Society for the best experimental work in the field of biochemistry, performed in Polish laboratories and published in the former year – 1994, 1995, 1999, 2000, 2004
- Award of the Minister of National Education for scientific achievements (stringent DNA replication control publication cycle) – 1995
- President of the University of Gdansk Award for the Intercollegiate Faculty of Biotechnology UG-MUG management, development and organization – 1996, Gdansk
- Habilitation awarded by the Prime Minister – 1997, Warsaw
- Prizes of the Polish Genetic Society for the best publications in the field of genetics, based on work performed in Polish laboratories – 1999, 2001, 2004, 2007
- Subsidy of the Foundation for Polish Science (professorship) – 2000, Warsaw
- Polish Biochemical Society Award for the best review article – 2000, Warsaw
- President of the University of Gdansk Award, for scientific achievements in the field of protein stress protection process – 2000, Gdansk

- Medal of the Committee for National Education – 2001, Warsaw
- President of the University of Gdansk Award, for scientific achievements in the field of the marine bacterium *Vibrio harveyi* biology and its potential use as an environmental mutagenic pollution indicator – 2001, Gdansk
- President of the University of Gdansk Award, for the tutorial achievements and the Faculty of Biology, Geography and Oceanology management – 2003, Gdansk
- President of the University of Gdansk Award, for the organisation achievements – 2004, Gdansk
- Hevelius Award – Scientific Award of the City of Gdansk – 2004, Gdansk
- Award of the Minister of Science and Higher Education for scientific achievements – 2010, Warsaw

Scientific interests

- Plasmids and bacteriophage DNA replication mechanisms
- Control of gene expression in prokaryotes
- Human genetic diseases, particularly neurodegenerative inherited metabolic diseases
- Electrical bio-chips

Scientific experience and achievements

- Resolving the replication molecular mechanism of few plasmids with the stringent or relaxed metabolic control, pinpointing the essential role of the transcription in the regulation of DNA replication initiation
- Mechanism of the DnaA protein activated transcription, firstly claimed that bacterial transcriptional activators can interact with the RNA polymerase beta subunit.
- Bacterial cells bioluminescence plays a role in DNA repair by stimulating the photoactivation process.
- SeqA protein, the main negative regulator of the bacterial chromosome replication initiation, is also a transcription factor; describing its mechanism of action.
- Describing the physiological conditions regulating the efficiency of the RNA polyadenylation process in bacterial cells (as a first in the World).
- Novel treatment method for the lysosomal storage diseases, involving flavonoid genistein modulated gene expression.
- Proposed biological function of the Shiga-toxin coding bacteriophages of the enterohemorrhagic *Escherichia coli* host cells.

Business experience and achievements

- United States Patent, patent no. US 8,178,609 B2, 2012: **Isoflavones for treating mucopolysaccharidoses.**
- Genzyme company expert
- BioMarine company expert
- Phage Consultants company expert
- Cooperation with 3G Therapeutics company in the field of research commercialisation

Scientific papers (Impact Factor – 750, H-Index = 27, citations - >3000, publications - >300, conference communications - >400, books – 1, edited books – 1)

Patents

1. United States Patent, patent no. US 8,178,609 B2, 2012, "Isoflavones for treating mucopolysaccharidoses"

ISI Master Journal List Publications (293 publications)

1. Obuchowski M, Węgrzyn G: **Eriochrome black T as a dye for agarose gel electrophoresis.** *Acta Biochimica Polonica* 1991, **38**:177-179.
2. Węgrzyn G, Kwaśnik E, Taylor K: **Replication of plasmid in amino acid-starved strains of *Escherichia coli*.** *Acta Biochimica Polonica* 1991, **38**:181-186.
3. Grzegorz Węgrzyn, Neubauer P, Krueger S, Hecker M, Taylor K: **Stringent control of replication of plasmids derived from coliphage.** *Molecular and General Genetics* 1991, **225**:94-98.
4. Węgrzyn G, Pawłowicz A, Taylor K: **Stability of coliphage - DNA replication initiator, the O protein.** *Journal of Molecular Biology* 1992, **226**:675-680.
5. Węgrzyn G, Taylor K: **Inheritance of the replication complex by one of two daughter copies during plasmid replication in *Escherichia coli*.** *Journal of Molecular Biology* 1992, **226**:681-688.

6. Węgrzyn G, Glass RE, Thomas MS: **Involvement of the Escherichia coli RNA polymerase subunit in transcriptional activation by the bacteriophage lambda CI and CII proteins.** *Gene* 1992, **122**:1-
7. Pawłowicz A, Węgrzyn G, Taylor K: **Effect of coliphage P gene mutations on the stability of the O protein, the initiator of DNA replication.** *Acta Biochimica Polonica* 1993, **40**:29-31.
8. Salwa A, Węgrzyn G: **Izolacja wirusa maedi owiec w Polsce.** *Medycyna Weterynaryjna* 1993, **49**: 298-300.
9. Herman A, Węgrzyn A, Węgrzyn G: **Regulation of replication of plasmid pBR322 in amino acid-starved Escherichia coli strains.** *Molecular and General Genetics* 1994, **243**:374-378.
10. Herman A, Węgrzyn A, Węgrzyn G: **Combined effect of stringent or relaxed response, temperature and rom function on the replication of pUC plasmids in Escherichia coli.** *Acta Biochimica Polonica* 1994, **41**:122-124.
11. Herman A, Węgrzyn A, Węgrzyn G: **Differential replication of plasmids during stringent and relaxed response of Escherichia coli.** *Plasmid* 1994, **32**:89-94.
12. Szalewska A, Węgrzyn G, Taylor K: **Neither absence nor excess of O initiator-digesting ClpXP protease affects plasmid or phage replication in Escherichia coli.** *Molecular Microbiology* 1994, **13**:469-474.
13. Szalewska-Pałasz A, Węgrzyn A, Herman A, Węgrzyn G: **The mechanism of the stringent control of plasmid DNA replication.** *EMBO Journal* 1994, **13**:5779-5785.
14. Szalewska-Pałasz A, Węgrzyn G: **An additional role of transcriptional activation of ori in the regulation of plasmid replication in Escherichia coli.** *Biochemical and Biophysical Research Communications* 1994, **205**:802-806.
15. Herman A, Węgrzyn G: **Effect of increased ppGpp concentration on DNA replication of different replicons in Escherichia coli.** *Journal of Basic Microbiology* 1995, **35**:33-39.
16. Taylor K, Węgrzyn G: **Replication of coliphage lambda DNA.** *FEMS Microbiology Reviews* 1995, **17**: 109-119.
17. Węgrzyn G, Węgrzyn A, Konieczny I, Bielawski K, Konopa G, Obuchowski M, Helinski DR, Taylor K: **Involvement of the host initiator function dnaA in the replication of coliphage.** *Genetics* 1995, **139**:1469-1481.
18. Węgrzyn G, Szalewska-Pałasz A, Węgrzyn A, Obuchowski M, Taylor K: **Transcriptional activation of coliphage DNA replication is regulated by the host DnaA initiator function.** *Gene* 1995, **154**:47-50.
19. Węgrzyn G: **Czterofosforan guanozyny, ppGpp, jako czynnik ścisłej kontroli replikacji DNA.** *Postępy Biochemii* 1995, **41**:23-32.
20. Węgrzyn A, Węgrzyn G, Taylor K: **Protection of coliphage O initiator protein from proteolysis in the assembly of the replication complex in vivo.** *Virology* 1995, **207**:179-184.
21. Węgrzyn A, Węgrzyn G, Taylor K: **Plasmid and host functions required for λ plasmid replication carried out by the inherited replication complex.** *Molecular and General Genetics* 1995, **245**: 501-508.
22. Szalewska-Pałasz A, Węgrzyn G: **Inhibition of transcription starting from bacteriophage pR promoter during the stringent response in Escherichia coli: implications for DNA replication.** *Acta Biochimica Polonica* 1995, **42**:233-240.
23. Węgrzyn G: **Amplification of plasmids in Escherichia coli relA mutants.** *Journal of Biotechnology* 1995, **43**:139-143.
24. Węgrzyn A, Węgrzyn G: **Transcriptional activation of ori regulates plasmid replication in amino acid-starved Escherichia coli cells.** *Biochemical and Biophysical Research Communications* 1995, **214**:978-984.
25. Węgrzyn A, Węgrzyn G, Taylor K: **Disassembly of the coliphage replication complex due to heat shock induction of the groE operon.** *Virology* 1996, **217**:594-597.
26. Neubauer P, Wróbel B, Węgrzyn G: **DNA degradation at elevated temperatures after plasmid amplification in amino acid-starved Escherichia coli cells.** *Biotechnology Letters* 1996, **18**:321-326.
27. Obuchowski M, Węgrzyn G: **Synthesis of the bacteriophage P protein in amino acid-starved Escherichia coli cells.** *Biochemical and Biophysical Research Communications* 1996, **222**:612-618.
28. Węgrzyn G, Węgrzyn A, Pankiewicz A, Taylor K: **Allele specificity of the Escherichia coli dnaA gene function in the replication of plasmids derived from phage.** *Molecular and General Genetics* 1996, **252**:580-586.
29. Węgrzyn A, Taylor K, Węgrzyn G: **The cbpA chaperone gene function compensates for dnaJ in plasmid replication during amino acid starvation of Escherichia coli.** *Journal of Bacteriology* 1996, **178**:5847-5849.
30. Szalewska-Pałasz A, Węgrzyn A, Obuchowski M, Pawłowski R, Bielawski K, Thomas MS, Węgrzyn G: **Drastically decreased transcription from CII-activated promoters is responsible for impaired lysogenization of the Escherichia coli rpoA341 mutant by bacteriophage.** *FEMS Microbiology Letters* 1996, **144**:21-27.

31. Węgrzyn A, Węgrzyn G, Herman A, Taylor K: **Protein inheritance: plasmid replication perpetuated by the heritable replication complex.** *Genes to Cells* 1996, **1**:953-963.
32. Taylor K, Węgrzyn G, Węgrzyn A, Szalewska-Pałasz A, Herman A, Obuchowski M, Śrutkowska S, Konopa G: **Escherichia coli initiator protein DnaA, cell cycle, and control of plasmid replication.** *Bulletin of the Polish Academy of Sciences, Biological Sciences* 1996, **44**:225-230.
33. Obuchowski M, Węgrzyn A, Szalewska-Pałasz A, Thomas MS, Węgrzyn G: **An RNA polymerase subunit mutant impairs N-dependent transcriptional antitermination in Escherichia coli.** *Molecular Microbiology* 1997, **23**:211-222.
34. Obuchowski M, Giladi H, Koby S, Szalewska-Pałasz A, Węgrzyn A, Oppenheim AB, Thomas MS, Węgrzyn G: **Impaired lysogenisation of the Escherichia coli rpoA341 mutant by bacteriophage is due to the inability of CII to act as a transcriptional activator.** *Molecular and General Genetics* 1997, **254**:304-311.
35. Wróbel B, Węgrzyn G: **Replication and amplification of plasmids in Escherichia coli during amino acid starvation and limitation.** *FEMS Microbiology Letters* 1997, **153**:151-157.
36. Węgrzyn G: **Antyterminacja transkrypcji u bakteriofaga.** *Postępy Biologii Komórki* 1997, **24** (Suplement 8):37-51.
37. Węgrzyn G, Węgrzyn A: **Aktywacja transkrypcji w komórkach Escherichia coli.** *Postępy Biologii Komórki* 1997, **24** (Suplement 8):53-68.
38. Wróbel B, Węgrzyn G: **Differential amplification efficiency of pMB1 and p15A (ColE1-type) replicons in Escherichia coli stringent and relaxed strains starved for particular amino acids.** *Microbiological Research* 1997, **152**:251-255.
39. Wróbel B, Węgrzyn G: **Replication of plasmids derived from P1, F, R1, R6K and RK2 replicons in amino acid-starved Escherichia coli stringent and relaxed strains.** *Journal of Basic Microbiology* 1997, **37**:451-463.
40. Obuchowski M, Shotland Y, Koby S, Giladi H, Gabig M, Węgrzyn G, Oppenheim AB: **Stability of CII is a key element in the cold stress response of bacteriophage infection.** *Journal of Bacteriology* 1997, **179**:5987-5991.
41. Mikiewicz D, Wróbel B, Węgrzyn G, Płucienniczak A: **Isolation and characterization of a ColE1-like plasmid from Enterobacter agglomerans with a novel variant of rom gene.** *Plasmid* 1997, **38**: 210-219.
42. Wróbel B, Węgrzyn G: **Amplification of pSC101 replicons in Escherichia coli during amino acid limitation.** *Journal of Biotechnology* 1997, **58**:205-208.
43. Taylor K, Węgrzyn G: **Regulation of bacteriophage replication.** W: *Molecular Microbiology (S. J. W. Busby, C. M. Thomas, N. L. Brown, Red.)* 1998, Springer Verlag, Berlin-Heidelberg, str. 81-97.
44. Wróbel B, Murphy H, Cashel M, Węgrzyn G: **Guanosine tetraphosphate (ppGpp)-mediated inhibition of the activity of the bacteriophage pR promoter in Escherichia coli.** *Molecular and General Genetics* 1998, **257**:490-495.
45. Wróbel B, Węgrzyn G: **Replication regulation of ColE1-like plasmids in amino acid-starved Escherichia coli.** *Plasmid* 1998, **39**:48-62.
46. Gabig M, Obuchowski M, Ciesielska A, Latała B, Węgrzyn A, Thomas MS, Węgrzyn G: **The Escherichia coli RNA polymerase subunit and transcriptional activation by bacteriophage CII protein.** *Acta Biochimica Polonica* 1998, **45**:271-280.
47. Węgrzyn A, Herman-Antosiewicz A., Taylor K, Węgrzyn G: **Molecular mechanism of heat shock-provoked disassembly of the coliphage replication complex.** *Journal of Bacteriology* 1998, **180**: 2475-2483.
48. Szalewska-Pałasz A, Węgrzyn A, Błaszczak A, Taylor K, Węgrzyn G: **DnaA-stimulated transcriptional activation of ori: Escherichia coli RNA polymerase subunit as a transcriptional activator contact site.** *Proceedings of the National Academy of Science of USA* 1998, **95**:4241-4246.
49. Śrutkowska S, Konopa G, Węgrzyn G: **A method for isolation of plasmid DNA replication intermediates from unsynchronized bacterial cultures for electron microscopy analysis.** *Acta Biochimica Polonica* 1998, **45**:233-240.
50. Wróbel B, Śrutkowska S, Węgrzyn G: **Biochemical and genetic analysis of W, the newly isolated lambdoid phage.** *Acta Biochimica Polonica* 1998, **45**:251-259.
51. Gabig M, Obuchowski M, Śrutkowska S, Węgrzyn G: **Regulation of replication of phage and plasmid at low temperature.** *Molecular and General Genetics* 1998, **258**:494-502.
52. Wróbel B, Herman-Antosiewicz A, Szalewska-Pałasz A, Węgrzyn G: **Polyadenylation of oop RNA in the regulation of bacteriophage development.** *Gene* 1998, **212**:57-65.
53. Herman-Antosiewicz A, Śrutkowska S, Taylor K, Węgrzyn G: **Replication and maintenance of plasmids devoid of the Cro repressor autoregulatory loop in Escherichia coli.** *Plasmid* 1998, **40**:113-125.
54. Węgrzyn A, Węgrzyn G: **Random inheritance of the replication complex by one of two daughter plasmid copies after a replication round in Escherichia coli.** *Biochemical and Biophysical Research Communications* 1998, **246**:634-639.

55. Gabig M, Obuchowski M, Węgrzyn A, Szalewska-Pałasz A, Thomas MS, Węgrzyn G: **Excess production of phage delayed early proteins under conditions supporting high Escherichia coli growth rates.** *Microbiology* 1998, **144**:2217-2224.
56. Herman-Antosiewicz A, Węgrzyn G: **Replication of plasmid DNA in the Escherichia coli cell cycle.** *Biochemical and Biophysical Research Communications* 1998, **247**:554-557.
57. Herman-Antosiewicz A, Węgrzyn A, Taylor K, Węgrzyn G: **DnaA-mediated regulation of phage-derived replicons in the absence of pR and Cro function.** *Virology* 1998, **249**:98-107.
58. Szalewska-Pałasz A, Wróbel B, Węgrzyn G: **Rapid degradation of polyadenylated oop RNA.** *FEBS Letters* 1998, **432**:70-72.
59. Szalewska-Pałasz A, Weigel Ch, Speck Ch, Śrutkowska S, Konopa G, Lurz R, Marszałek J, Taylor K, Messer W, Węgrzyn G: **Interaction of the Escherichia coli DnaA protein with bacteriophage DNA.** *Molecular and General Genetics* 1998, **259**:679-688.
60. Szalewska-Pałasz A, Lemieszek E, Pankiewicz A, Węgrzyn A, Helinski DR, Węgrzyn G: **Escherichia coli dnaA gene function and bacteriophage replication.** *FEMS Microbiology Letters* 1998, **167**:27-32.
61. Węgrzyn A, Szalewska-Pałasz A, Błaszczak A, Liberek K, Węgrzyn G: **Differential inhibition of transcription from 70- and 32-dependent promoters by rifampicin.** *FEBS Letters* 1998, **440**:172-174.
62. Kotlarz A, Szalewska-Pałasz A, Węgrzyn G, Lipińska B: **Economical and efficient overproduction of the Escherichia coli sigma 32 transcription factor.** *Biotechnology Techniques* 1998, **12**:869-873.
63. Węgrzyn G: **Replication of plasmids during bacterial response to amino acid starvation.** *Plasmid* 1999, **41**:1-16.
64. Węgrzyn A, Węgrzyn G: **Regulacja replikacji DNA bakteriofaga i plazmidów.** *Postępy Biochemii* 1999, **45**:5-11.
65. Glinkowska M, Węgrzyn A, Węgrzyn G: **Replication of bacteriophage ϕ in the Escherichia coli dnaA rac hosts.** *Genetics* 1999, **151**:1633-1635.
66. Śrutkowska S, Caspi R, Gabig M, Węgrzyn G: **Detection of DNA replication intermediates after two-dimensional agarose gel electrophoresis using a fluorescein-labeled probe.** *Analytical Biochemistry* 1999, **269**:221-222.
67. Węgrzyn A, Wróbel B, Węgrzyn G: **Altered biological properties of cell membranes in Escherichia coli dnaA and seqA mutants.** *Molecular and General Genetics* 1999, **261**:762-769.
68. Konopa G, Szalewska-Pałasz A, Schmidt A, Śrutkowska S, Messer W, Węgrzyn G: **The presence of two DnaA-binding sequences is required for efficient interaction of the Escherichia coli DnaA protein with each particular weak DnaA box region.** *FEMS Microbiology Letters* 1999, **174**:25-31.
69. Kędzierska S, Staniszevska M, Potrykus J, Węgrzyn G: **The effect some antibiotic-resistance-conferring plasmids on the removal of the heat-aggregated proteins from Escherichia coli.** *FEMS Microbiology Letters* 1999, **176**:279-284.
70. Herman-Antosiewicz A, Węgrzyn G: **Regulation of copy number and stability of phage derived pTC 1 plasmid in the light of the dimer/multimer catastrophe hypothesis.** *FEMS Microbiology Letters* 1999, **176**:489-493.
71. Słomińska M, Neubauer P, Węgrzyn G: **Regulation of bacteriophage ϕ development by guanosine 5'-diphosphate-3'-diphosphate.** *Virology* 1999, **262**:431-441.
72. Messer W, Blaesing F, Majka J, Nardmann J, Schaper S, Schmidt A, Seitz H, Speck Ch, Tungler D, Węgrzyn G, Weigel Ch, Welzeck M, Zakrzewska-Czerwińska J: **Functional domains of DnaA proteins.** *Biochimie* 1999, **81**:819-825.
73. Szalewska-Pałasz A, Węgrzyn G: **Czterofosforan gwanozyny (ppGpp) - regulator metabolizmu komórek bakteryjnych w warunkach głodowych.** W: *Na pograniczu chemii i biologii* (H. Koroniak, J. Barciszewski, Red.) 1999, Wydawnictwo Nukowe Uniwersytetu im. Adama Mickiewicza w Poznaniu, tom III, str. 31-50.
74. Czyż A, Wróbel B, Węgrzyn G: **Vibrio harveyi bioluminescence plays a role in stimulation of DNA repair.** *Microbiology* 2000, **146**:283-288.
75. Jakimowicz D, Majka J, Lis B, Konopa G, Węgrzyn G, Messer W, Schrempf H, Zakrzewska-Czerwińska J: **Structure and regulation of the dnaA promoter region of three Streptomyces species.** *Molecular and General Genetics* 2000, **262**:1093-1102.
76. Czyż A, Jasiński J, Bogdan A, Szpilewska H, Węgrzyn G: **Genetically modified Vibrio harveyi strains as potential bioindicators of mutagenic pollution of marine environments.** *Applied and Environmental Microbiology* 2000, **66**:599-605.
77. Potrykus K, Wróbel B, Węgrzyn A, Węgrzyn G: **Replication of oriJ-based plasmid DNA during the stringent and relaxed responses of Escherichia coli.** *Plasmid* 2000, **44**:11-126.
78. Jakimowicz D, Majka J, Konopa G, Węgrzyn G, Messer W, Schrempf H, Zakrzewska-Czerwińska J: **Architecture of the Streptomyces lividans DnaA protein-replication origin complexes.** *Journal of Molecular Biology* 2000, **298**:351-364.
79. Konopa G, Barańska S, Węgrzyn A, Węgrzyn G: **Bacteriophage and host mutants causing the rolling-circle DNA replication early after infection.** *FEBS Letters* 2000, **472**:217-220.

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81. Węgrzyn A, Czyż A, Gabig M, Węgrzyn G: **ClpP/ClpX-mediated degradation of the bacteriophage O protein and regulation of phage and plasmid replication.** *Archives of Microbiology* 2000, **174**:89-96.
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83. Kijewska A, Słomińska M, Węgrzyn G, Rokicki J: **A PCR-RFLP assay for identification of Anisakis simplex from different geographical regions.** *Molecular and Cellular Probes* 2000, **14**:349-354.
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88. Węgrzyn A, Węgrzyn G: **Inheritance of the replication complex: a unique or common phenomenon in the control of DNA replication?** *Archives of Microbiology* 2001, **175**:86-93.
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91. Węgrzyn G, Węgrzyn A, Barańska S, Czyż A: **Regulation of bacteriophage lambda development.** *Recent Research Developments in Virology* 2001, **3**, 375-386.
92. Jasiński J, Czyż A, Gabig M, Węgrzyn G: **Construction and use of a broad-host-range plasmid expressing the lamB gene for utilization of bacteriophage vectors in the marine bacterium Vibrio harveyi.** *Marine Biotechnology* 2001, **3**:336-345.
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