

References

1. **Vandamme, P.** (2000). Taxonomy of the family *Campylobacteraceae*. In *Campylobacter*, p. 3-26, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington DC.
2. **Solomon, E.B. and Hoover, D.G.** (1999). *Campylobacter Jejuni*: A bacterial paradox. *Journal of Food Safety*. **19**: 121-136.
3. **Skirrow, M.B.** (1977). Campylobacter enteritis: a "new" disease. *British Medical Journal*. **2**(2): 9-11.
4. **Kelly, D.J.** (2001). The physiology and metabolism of *Campylobacter jejuni* and *Helicobacter pylori*. *Journal of Applied Microbiology*. **90**: 16S-24S.
5. **Thomas, C., Hill, D.J., and Mabey, M.** (1999). Morphological changes of synchronized *Campylobacter jejuni* populations during growth in single phase liquid culture. *Letters in Applied Microbiology*. **28**(3): 194-198.
6. **Bovill, R.A. and MacKey, B.M.** (1997). Resuscitation of 'non-culturable' cells from aged cultures of *Campylobacter jejuni*. *Microbiology*. **143**: 1575-1581.
7. **Kelly, A.F., Park, S.F., Bovill, R.A., and MacKey, B.M.** (2001). Survival of *Campylobacter jejuni* during Stationary Phase: Evidence for the Absence of a Phenotypic Stationary-Phase Response. *Applied and Environmental Microbiology*. **67**(5): 2248-2254.
8. **Parkhill, J., Wren, B.W., Mungall, K., Ketley, J.M., Churcher, C., Basham, D., Chillingworth, T., Davies, R.M., Feltwell, T., Holroyd, S., Jagels, K., Karlyshev, A.V., Moule, S., Pallen, M.J., Penn, C.W., Quail, M.A., Rajandream, M.-A., Rutherford, K.M., van Vliet, A.H.M., Whitehead, S., and Barrell, B.G.** (2000). The genome sequence of the food-borne pathogen *Campylobacter jejuni* reveals hypervariable sequences. *Nature*. **403**: 665-668.
9. **Fouts, D.E., Mongodin, E.F., Mandrell, R.E., Miller, W.G., Rasko, D.A., Ravel, J., Brinkac, L.M., DeBoy, R.T., Parker, C.T., Daugherty, S.C., Dodson, R.J., Durkin, A.S., Madupu, R., Sullivan, S.A., Shetty, J.U., Ayodeji, M.A., Shavartsbeyn, A., Schatz, M.C., Badger, J.H., Fraser, C.M., and Nelson, K.E.** (2005). Major Structural Differences and Novel Potential Virulence Mechanisms from the Genomes of Multiple *Campylobacter* Species. *PLoS Biology*. **3**(1): 72-85.

10. **van Vliet, A.H.M., Ketley, J.M., Park, S.F., and Penn, C.W.** (2002). The role of iron in *Campylobacter* gene regulation, metabolism and oxidative stress defense. *Fems Microbiology Reviews*. **26**: 173-186.
11. **Field, L.H., Headley, V.L., Payne, S.M., and Berry, L.J.** (1986). Influence of Iron on Growth, Morphology, Outer Membrane Protein Composition, and Synthesis of Siderophores in *Campylobacter jejuni*. *Infection and Immunity*. **54**(1): 126-132.
12. **van Vliet, A.H.M. and Ketley, J.M.** (2001). Pathogenesis of enteric *Campylobacter* infection. *Journal of Applied Microbiology*. **90**: 45S-56S.
13. **Palyada, K., Threadgill, D., and Stintzi, A.** (2004). Iron Acquisition and Regulation in *Campylobacter jejuni*. *Journal of Bacteriology*. **186**(14): 4714-4729.
14. **Guerry, P., Perez-Casal, J., Yao, R., McVeigh, A., and Trust, T.J.** (1997). A Genetic Locus Involved in Iron Utilization Unique to Some *Campylobacter* Strains. *Journal of Bacteriology*. **179**(12): 3997-4002.
15. **Ketley, J.M.** (1997). Pathogenesis of enteric infection by *Campylobacter*. *Microbiology*. **143**: 5-21.
16. **Leach, S.A.** (1997). Growth, survival and pathogenicity of enteric campylobacters. *Reviews in Medical Microbiology*. **8**(3): 113-124.
17. **Mohammed, K.A.S., Miles, R.J., and Halablal, M.A.** (2004). The pattern and kinetics of substrate metabolism of *Campylobacter jejuni* and *Campylobacter coli*. *Letters in Applied Microbiology*. **39**(3): 261-266.
18. **Sellars, M.J., Hall, S.J., and Kelly, D.J.** (2002). Growth of *Campylobacter jejuni* Supported by Respiration of Fumarate, Nitrate, Nitrite, Trimethylamine-*N*-Oxide, or Dimethyl Sulfoxide Requires Oxygen. *Journal of Bacteriology*. **184**(15): 4187-4196.
19. **Newell, D.G., Frost, J.A., Duim, B., Wagenaar, J.A., Madden, R.H., van der Plas, J., and On, S.L.W.** (2000). New Developments In The Subtyping Of *Campylobacter* Species. In *Campylobacter*, p. 27-44, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington D. C.
20. **Tam, C.C.** (2001). *Campylobacter* reporting at its peak year of 1998: don't count your chickens yet. *Communicable Disease and Public Health*. **4**(3): 194-199.
21. Health Protection Agency, 2005; *Campylobacter spp. Laboratory reports of faecal isolates England & Wales, 1986-2004*.
http://www.hpa.org.uk/infections/topics_az/campy/data_ew.htm. Last accessed 1st April 2005.

22. CDC, 2004; *Preliminary FoodNet Data on the Incidence of Infection with Pathogens Transmitted Commonly Through Food --- Selected Sites, United States, 2003*. <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5316a2.htm>. Last accessed 1st April 2005.
23. **website, F.S.A.** (2001). Salmonella in retail chicken drops to all time low, but the battle with Campylobacter continues. <http://www.foodstandards.gov.uk/wales/pressreleases/lowssalmonellainchicken>.
24. **Wilson, I.G.** (2002). Salmonella and campylobacter contamination of raw retail chickens from different producers: a six year survey. *Epidemiology and Infection*. **129**(3): 635-645.
25. **Meldrum, R.J., Tucker, D., and Edwards, C.** (2004). Baseline Rates of *Campylobacter* and *Salmonella* in Raw Chicken in Wales, United Kingdom, in 2002. *Journal of Food Protection*. **67**(6): 1226-1228.
26. **Nachamkin, I., Engberg, J., and Aarestrup, F.M.** (2000). Diagnosis and Antimicrobial susceptibility of *Campylobacter* species. In *Campylobacter*, p. 45-66, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington D. C.
27. **Nachamkin, I., Allos, B.M., and Ho, T.W.** (2000). *Campylobacter jejuni* infection and the association with Guillain-Barré syndrome. In *Campylobacter*, p. 155-175, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington D. C.
28. **Willison, H.J. and O'Hanlon, G.M.** (2000). Antiglycosphingolipid antibodies and Guillain-Barré syndrome. In *Campylobacter*, p. 259-285, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington, D. C.
29. **Wassenaar, T.M. and Blaser, M.J.** (1999). Pathophysiology of *Campylobacter jejuni* infections of humans. *Microbes and Infection*. **1**: 1023-1033.
30. **Kuroki, S., Saida, T., Nukina, M., Haruta, T., Yoshioka, M., Kobayashi, Y., and Nakanishi, H.** (1993). *Campylobacter jejuni* Strains from Patients with Guillain-Barré Syndrome Belong Mostly to Penner Serogroup 19 and Contain β -N-Acetylglucosamine Residues. *Annals of Neurology*. **33**(3): 243-247.
31. **Duim, B., Ang, C.W., van Belkum, A., Rigter, A., van Leeuwen, N.W.J., Endtz, H., and Wagenaar, J.A.** (2000). Amplified Fragment Length Polymorphism Analysis of *Campylobacter jejuni* Strains Isolated from Chickens and from Patients with Gastroenteritis or Guillain-Barré or Miller Fisher Syndrome. *Applied and Environmental Microbiology*. **66**(9): 3917-3923.

32. **Skirrow, M.B. and Blaser, M.J.** (2000). Clinical aspects of *Campylobacter* infection. In *Campylobacter*, p. 69-82, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington, DC.
33. **Oberhelman, R.A. and Taylor, D.N.** (2000). *Campylobacter* infections in developing countries. In *Campylobacter*, p. 139-153, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington D. C.
34. **Altekruse, S.F., Stern, N.J., Fields, P.I., and Swerdlow, D.L.** (1999). *Campylobacter jejuni* - An Emerging Foodborne Pathogen. *Emerging Infectious Diseases*. **5**(1): 28-35.
35. **Wren, B.W., Linton, D., Dorrell, N., and Karlyshev, A.V.** (2001). Post genome analysis of *Campylobacter jejuni*. *Journal of Applied Microbiology*. **90**: 36S-44S.
36. **Black, R.E., Levine, M.M., Clements, M.L., Hughes, T.P., and Blaser, M.J.** (1988). Experimental *Campylobacter jejuni* infections in Humans. *The Journal of Infectious Diseases*. **157**(3): 472-479.
37. **Szymanski, C.M., Logan, S.M., Linton, D., and Wren, B.W.** (2003). *Campylobacter* - a tale of two protein glycosylation systems. *Trends in Microbiology*. **11**(5): 233-238.
38. **Konkel, M.E., Klena, J.D., Rivera-Amill, V., Monteville, M.R., Biswas, D., Raphael, B., and Mickelson, J.** (2004). Secretion of Virulence Proteins from *Campylobacter jejuni* Is Dependent on a Functional Flagellar Export Apparatus. *Journal of Bacteriology*. **186**(11): 3296-3303.
39. **Konkel, M.E. and Cieplak JR., W.** (1992). Altered Synthetic Response of *Campylobacter jejuni* to Cocultivation with Human Epithelial Cells Is Associated with Enhanced Internalization. *Infection and Immunity*. **60**(11): 4945-4949.
40. **Konkel, M.E. and Joens, L.A.** (1989). Adhesion to and Invasion of HEP-2 Cells by *Campylobacter* spp. *Infection and Immunity*. **57**(10): 2984-2990.
41. **Pei, Z., Burucoa, C., Grignon, B., Baqar, S., Huang, X.-Z., Kopecko, D.J., Bourgeois, A.L., Fauchere, J.-L., and Blaser, M.J.** (1998). Mutation in the *peb1A* Locus of *Campylobacter jejuni* Reduces Interactions with Epithelial Cells and Intestinal Colonization of Mice. *Infection and Immunity*. **66**(3): 938-943.
42. **Monteville, M.R., Yoon, J.E., and Konkel, M.E.** (2003). Maximal adherence and invasion of INT 407 cells by *Campylobacter jejuni* requires the CadF outer-membrane protein and microfilament reorganization. *Microbiology*. **149**: 153-165.

43. **Jin, S., Joe, A., Lynett, J., Hani, E.K., Sherman, P., and Chan, V.L.** (2001). JlpA, a novel surface-exposed lipoprotein specific to *Campylobacter jejuni*, mediates adherence to host epithelial cells. *Molecular Microbiology*. **39**(5): 1225-1236.
44. **Yao, R., Burr, D.H., and Guerry, P.** (1997). CheY-mediated modulation of *Campylobacter jejuni* virulence. *Molecular Microbiology*. **23**(5): 1021-1031.
45. **Wooldridge, K.G. and Ketley, J.M.** (1997). *Campylobacter*-host cell interactions. *Trends in Microbiology*. **5**(3): 96-102.
46. **Konkel, M.E., Kim, B.J., Rivera-Amill, V., and Garvis, S.G.** (1999). Bacterial secreted proteins are required for the internalization of *Campylobacter jejuni* into cultured mammalian cells. *Molecular Microbiology*. **32**(4): 691-701.
47. **Blaser, M.J., Perez, G.P., Smith, P.F., Patton, C., Tenover, F.C., Lastovica, A.J., and Wang, W.I.** (1986). Extraintestinal *Campylobacter jejuni* and *Campylobacter coli* infections: host factors and strain characteristics. *Journal of Infectious Diseases*. **153**(3): 552-559.
48. **Guerry, P., Ewing, C.P., Hickey, T.E., Prendergast, M.M., and Moran, A.P.** (2000). Sialylation of Lipooligosaccharide Cores Affects Immunogenicity and Serum Resistance of *Campylobacter jejuni*. *Infection and Immunity*. **68**(12): 6656-6662.
49. **Wassenaar, T.M.** (1997). Toxin Production by *Campylobacter* spp. *Clinical Microbiology Reviews*. **10**(3): 466-476.
50. **Pickett, C.L.** (2000). *Campylobacter* Toxins and Their Role in Pathogenesis. In *Campylobacter*, p. 179-190, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington, D.C.
51. **Dorrell, N., Mangan, J.A., Laing, K.G., Hinds, J., Linton, D., Al-Ghusein, H., Barrell, B.G., Parkhill, J., Stoker, N.G., Karlyshev, A.V., Butcher, P.D., and Wren, B.W.** (2001). Whole Genome Comparison of *Campylobacter jejuni* Human Isolates Using a Low-Cost Microarray Reveals Extensive Genetic Diversity. *Genome Research*. **11**(10): 1706-1715.
52. **Yuki, N., Susuki, K., Koga, M., Nishimoto, Y., Odaka, M., Hirata, K., Taguchi, K., Miyatake, T., Furukawa, K., Kobata, T., and Yamada, M.** (2004). Carbohydrate mimicry between human ganglioside GM1 and *Campylobacter jejuni* lipooligosaccharide causes Guillain-Barré syndrome. *Proceedings of The National Academy of Sciences USA*. **101**(31): 11404-11409.

53. **Karlyshev, A.V., Linton, D., Gregson, N.A., Lastovica, A.J., and Wren, B.W.** (2000). Genetic and biochemical evidence of a *Campylobacter jejuni* capsular polysaccharide that accounts for Penner serotype specificity. *Molecular Microbiology*. **35**(3): 529-541.
54. **Day JR, W.A., Sajecki, J.L., Pitts, T.M., and Joens, L.A.** (2000). Role of Catalase in *Campylobacter jejuni* Intracellular Survival. *Infection and Immunity*. **68**(11): 6337-6345.
55. **Bacon, D.J., Alm, R.A., Burr, D.H., Hu, L., Kopecko, D.J., Ewing, C.P., Trust, T.J., and Guerry, P.** (2000). Involvement of a Plasmid in Virulence of *Campylobacter jejuni* 81-176. *Infection and Immunity*. **68**(8): 4384-4390.
56. **Schmidt-Ott, R., Pohl, S., Burghard, S., Weig, M., and Groß, U.** (2005). Identification and characterization of a major subgroup of conjugative *Campylobacter jejuni* plasmids. *Journal of Infection*. **50**: 12-21.
57. **Tenover, F.C., Williams, S., Gordon, K.P., Nolan, C., and Plorde, J.J.** (1985). Survey of Plasmids and Resistance Factors in *Campylobacter jejuni* and *Campylobacter coli*. *Antimicrobial Agents and Chemotherapy*. **27**(1): 37-41.
58. **Trieber, C.A. and Taylor, D.E.** (2000). Mechanisms of antibiotic resistance in *Campylobacter*. In *Campylobacter*, p. 441-454, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. American Society for Microbiology: Washington, D. C.
59. **Karlyshev, A.V., Ketley, J.M., and Wren, B.W.** (2005). The *Campylobacter jejuni* glycome. *Fems Microbiology Reviews*. **29**: 377-390.
60. **Korolik, V., Alderton, M.R., Smith, S.C., Chang, J., and Coloe, P.J.** (1998). Isolation and molecular analysis of colonising and non-colonising strains of *Campylobacter jejuni* and *Campylobacter coli* following experimental infection of young chickens. *Veterinary Microbiology*. **60**: 239-249.
61. **Lior, H., Woodward, D.L., Edgar, J.A., Laroche, L.J., and Gill, P.** (1982). Serotyping of *Campylobacter jejuni* by Slide Agglutination Based on Heat-Labile Antigenic Factors. *Journal of Clinical Microbiology*. **15**(5): 761-768.
62. **Penner, J.L. and Hennessy, J.N.** (1980). Passive Hemmagglutination Technique for Serotyping *Campylobacter fetus* subsp. *jejuni* on the Basis of Soluble Heat-Stable Antigens. *Journal of Clinical Microbiology*. **12**(6): 732-737.
63. **Nielsen, E.M. and Nielsen, N.L.** (1999). Serotypes and typability of *Campylobacter jejuni* and *Campylobacter coli* isolated from poultry products. *International Journal of Food Microbiology*. **46**: 199-205.

64. **Wassenaar, T.M. and Newell, D.G.** (2000). Genotyping of *Campylobacter* spp. *Applied and Environmental Microbiology*. **66**(1): 1-9.
65. **Harrington, C.S., Thomson-Carter, F.M., and Carter, P.E.** (1997). Evidence for Recombination in the Flagellin Locus of *Campylobacter jejuni*: Implications for the Flagellin Gene Typing Scheme. *Journal of Clinical Microbiology*. **35**(9): 2386-2392.
66. **Fitzgerald, C., Stanley, K., Andrew, S., and Jones, K.** (2001). Use of Pulsed-Field Gel Electrophoresis and Flagellin Gene Typing in Identifying Clonal Groups of *Campylobacter jejuni* and *Campylobacter coli* in Farm and Clinical Environments. *Applied and Environmental Microbiology*. **67**(4): 1429-1436.
67. **Carvalho, A.C.T., Ruiz-Palacios, G.M., Ramos-Cervantes, P., Cervantes, L.-E., Jiang, X., and Pickering, L.K.** (2001). Molecular Characterization of Invasive and Noninvasive *Campylobacter jejuni* and *Campylobacter coli* Isolates. *Journal of Clinical Microbiology*. **39**(4): 1353-1359.
68. **Hernandez, J., Fayos, A., Ferrus, M.A., and Owen, R.J.** (1995). Random amplified polymorphic DNA fingerprinting of *Campylobacter jejuni* and *C. coli* isolated from human faeces, seawater and poultry products. *Research in Microbiology*. **146**: 685-696.
69. **Schouls, L.M., Reulen, S., Duim, B., Wagenaar, J.A., Willems, R.J.L., Dingle, K.E., Colles, F.M., and van Embden, J.D.A.** (2003). Comparative Genotyping of *Campylobacter jejuni* by Amplified Fragment Length Polymorphism, Multilocus Sequence Typing, and Short Repeat Sequencing: Strain Diversity, Host Range, and Recombination. *Journal of Clinical Microbiology*. **41**(1): 15-26.
70. **Dingle, K.E., Colles, F.M., Wareing, D.R.A., Ure, R., Fox, A.J., Bolton, F.E., Bootsma, H.J., Willems, R.J.L., Urwin, R., and Maiden, M.C.J.** (2001). Multilocus Sequence Typing System for *Campylobacter jejuni*. *Journal of Clinical Microbiology*. **39**(1): 14-23.
71. **Hacker, J., Blum-Oehler, G., Mühldorfer, I., and Tschäpe, H.** (1997). Pathogenic islands of virulent bacteria: structure, function and impact on microbial evolution. *Molecular Microbiology*. **23**(6): 1089-1097.
72. **Censini, S., Lange, C., Xiang, Z., Crabtree, J.E., Ghiara, P., Borodovsky, M., Rappuoli, R., and Covacci, A.** (1996). *cagT*, a pathogenicity island of *Helicobacter pylori*, encodes type I-specific and disease-associated virulence factors. *Proceedings of The National Academy of Sciences USA*. **93**: 14648-14653.

73. **Stein, M., Rappuoli, R., and Covacci, A.** (2001). The *cag* Pathogenicity Island. In *Helicobacter pylori: Physiology and Genetics*, p. 345-353 Mobley, H.L.T., Mendz, G.L., and Hazell, S.L., Editors. ASM Press: Washington, D.C.
74. **Carniel, E.** (2001). The *Yersinia* high-pathogenicity island: an iron-uptake island. *Microbes and Infection*. **3**: 561-569.
75. **Carniel, E., Guilvout, I., and Prentice, M.** (1996). Characterization of a Large Chromosomal "High-Pathogenicity Island" in Biotype 1B *Yersinia enterocolitica*. *Journal of Bacteriology*. **178**(23): 6743-6751.
76. **Fetherston, J.D., Schuetze, P., and Perry, R.D.** (1992). Loss of the pigmentation phenotype in *Yersinia pestis* is due to the spontaneous deletion of 102Kb of chromosomal DNA which is flanked by a repetitive element. *Molecular Microbiology*. **6**: 2693-2704.
77. **Venkatesan, M.M., Buysse, J.M., and Kopecko, D.J.** (1988). Characterization of invasion plasmid antigen genes (*ipaBCD*) from *Shigella flexneri*. *Proceedings of The National Academy of Sciences USA*. **85**: 9317-9321.
78. **Zink, D.L., Feeley, J.C., Wells, J.G., Vanderzant, C., Vickery, J.C., Roof, W.D., and O'Donovan, G.A.** (1980). Plasmid-mediated tissue invasiveness in *Yersinia enterocolitica*. *Nature*. **283**: 224-226.
79. **Brüssow, H., Canchaya, C., and Hardt, W.-D.** (2004). Phages and the Evolution of Bacterial Pathogens: from Genomic Rearrangements to Lysogenic Conversion. *Microbiology and Molecular Biology Reviews*. **68**(3): 560-602.
80. **Barondess, J.J. and Beckwith, J.** (1990). A bacterial virulence determinant encoded by lysogenic coliphage lambda. *Nature*. **346**: 871-874.
81. **Levinson, G. and Gutman, G.A.** (1987). Slipped-Strand Mispairing: A Major Mechanism for DNA Sequence Evolution. *Molecular Biology and Evolution*. **4**(3): 203-221.
82. **Moxon, E.R., Rainey, P.B., Nowak, M.A., and Lenski, R.E.** (1994). Adaptive evolution of highly mutable loci in pathogenic bacteria. *Current Biology*. **4**(1): 24-33.
83. **Pearson, B.M., Pin, C., Wright, J., I'Anson, K., Humphrey, T., and Wells, J.M.** (2003). Comparative genome analysis of *Campylobacter jejuni* using whole genome DNA microarrays. *FEBS Letters*. **554**: 224-230.

84. **Taboada, E.N., Acedillo, R.R., Carrillo, C.D., Findlay, W.A., Medeiros, D.T., Mykytczuk, O.L., Roberts, M.J., Valencia, C.A., Farber, J.M., and Nash, J.H.E.** (2004). Large-Scale Comparative Genomics Meta-Analysis of *Campylobacter jejuni* Isolates Reveals Low Level of Genome Plasticity. *Journal of Clinical Microbiology*. **42**(10): 4566-4576.
85. **Poly, F., Threadgill, D., and Stintzi, A.** (2004). Identification of *Campylobacter jejuni* ATCC 43431-Specific Genes by Whole Microbial Genome Comparisons. *Journal of Bacteriology*. **186**(14): 4781-4795.
86. **Jones, K., Shapero, M.H., Chevrette, M., and Fournier, R.E.K.** (1991). Subtractive Hybridization Cloning of a Tissue-Specific Extinguisher: TSE1 Encodes a Regulatory Subunit of Protein Kinase A. *Cell*. **66**: 861-872.
87. **Hedrick, S.M., Cohen, D.I., Nielsen, E.A., and Davis, M.M.** (1984). Isolation of cDNA clones encoding T cell-specific membrane-associated proteins. *Nature*. **308**: 149-153.
88. **DeShazer, D., Waag, D.M., Fritz, D.L., and Woods, D.E.** (2001). Identification of a *Burkholderia mallei* polysaccharide gene cluster by subtractive hybridization and demonstration that the encoded capsule is an essential virulence determinant. *Microbial Pathogenesis*. **30**: 253-269.
89. **Tinsley, C.R. and Nassif, X.** (1996). Analysis of the genetic differences between *Neisseria meningitidis* and *Neisseria gonorrhoeae*: Two closely related bacteria expressing two different pathogenicities. *Proceedings of The National Academy of Sciences USA*. **93**: 11109-11114.
90. **Agron, P.G., Macht, M., Radnedge, L., Skowronski, E.W., Miller, W., and Andersen, G.L.** (2002). Use of subtractive hybridization for comprehensive surveys of prokaryotic genome differences. *FEMS Microbiology Letters*. **211**: 175-182.
91. **Ahmed, I.H., Manning, G., Wassenaar, T.M., Cawthraw, S., and Newell, D.G.** (2002). Identification of genetic differences between two *Campylobacter jejuni* strains with different colonization potentials. *Microbiology*. **148**: 1203-1212.
92. **Liang, X., Pham, X.-Q.T., Olson, M.V., and Lory, S.** (2001). Identification of a Genomic Island Present in the Majority of Pathogenic Isolates of *Pseudomonas aeruginosa*. *Journal of Bacteriology*. **183**(3): 843-853.

93. **Champion, O.L., Best, E.L., and Frost, J.A.** (2002). Comparison of Pulsed-Field Gel Electrophoresis and Amplified Fragment Length Polymorphism Techniques for Investigating Outbreaks of Enteritis Due to Campylobacters. *Journal of Clinical Microbiology*. **40**(6): 2263-2265.
94. **Sambrook, J. and Russell, D.W.** (2001). Agarose gel electrophoresis. In *Molecular Cloning: A laboratory manual*, p. 5.4-5.13, 3rd edition. Argentine, J., Editor. Cold Spring Harbour Laboratory Press: New York.
95. **Sambrook, J. and Russell, D.W.** (2001). Media. In *Molecular Cloning: A Laboratory Manual*, p. A2.1-A2.12, 3rd edition. Argentine, J., Editor. Cold Spring Harbor Laboratory Press: New York.
96. **Frengen, E., Weichenhan, D., Zhao, B., Osoegawa, K., van Geel, M., and de Jong, P.J.** (1999). A Modular, Positive Selection Bacterial Artificial Chromosome Vector with Multiple Cloning Sites. *Genomics*. **58**: 250-253.
97. **Osoegawa, K., de Jong, P.J., Frengen, E., and Ioannou, P.A.** (1999). Support Protocol 1: Preparation of BAC/PAC Vector for Cloning. In *Current Protocols in Human Genetics*, p. UNIT 5.15 Dracopoli, N.C., et al., Editors. John Wiley & Sons, Inc.
98. **Sambrook, J. and Russell, D.W.** (2001). Random Priming: Radiolabeling of Purified DNA Fragments by Extension of Random Oligonucleotides. In *Molecular Cloning: A Laboratory Manual*, p. 9.4-9.8, 3rd edition. Argentine, J., Editor. Cold Spring Harbor Laboratory Press: New York.
99. **Ewing, B., Hillier, L., Wendl, M.C., and Green, P.** (1998). Base-Calling of Automated Sequencing Traces Using Phred. I. Accuracy Assessment. *Genome Research*. **8**: 175-185.
100. **Gish, W.** (1996-2002). <http://blast.wustl.edu>.
101. **Sonnhammer, E.L.L. and Durbin, R.** (1994). A Workbench for large-scale sequence homology analysis. *Computer Applications in the Biosciences*. **10**(3): 301-307.
102. **Rutherford, K., Parkhill, J., Crook, J., Horsnell, T., Rice, P., Rajandream, M.-A., and Barrell, B.** (2000). Artemis: sequence visualization and annotation. *Bioinformatics*. **16**(10): 944-945.
103. **Pearson, W.R. and Lipman, D.J.** (1988). Improved tools for biological sequence comparison. *Proceedings of The National Academy of Sciences USA*. **85**: 2444-2448.

104. **Thompson, J.D., Higgins, D.G., and Gibson, T.J.** (1994). CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice. *Nucleic Acids Research*. **22**(22): 4673-4680.
105. **Perrière, G. and Gouy, M.** (1996). WWW-query: An on-line retrieval system for biological sequence banks. *Biochimie*. **78**(5): 364-369.
106. **Needleman, S.B. and Wunsch, C.D.** (1970). A general method applicable to the search for similarities in the amino acid sequence of two proteins. *Journal of Molecular Biology*. **48**(3): 443-453.
107. **Smith, T.F. and Waterman, M.S.** (1981). Identification of common molecular subsequences. *Journal of Molecular Biology*. **147**(1): 195-197.
108. **del Solar, G., Giraldo, R., Ruiz-Echievarria, M.J., Espinosa, M., and Diaz-Orejas, R.** (1998). Replication and Control of Circular Bacterial Plasmids. *Microbiology and Molecular Biology Reviews*. **62**(2): 434-464.
109. **Luo, N. and Zhang, Q.** (2001). Molecular Characterization of a Cryptic Plasmid from *Campylobacter jejuni*. *Plasmid*. **45**: 127-133.
110. **Suhan, M., Chen, S.-Y., Thompson, H.A., Hoover, T.A., Hill, A., and Williams, J.C.** (1994). Cloning and Characterization of an Autonomous Replication Sequence from *Coxiella burnetii*. *Journal of Bacteriology*. **176**(17): 5233-5243.
111. **Mackiewicz, P., Zakrzewska-Czerwinska, J., Zawilak, A., Dudek, M.R., and Cebrat, S.** (2004). Where does bacterial replication start? Rules for predicting the *oriC* region. *Nucleic Acids Research*. **32**(13): 3781-3791.
112. **Sonnhammer, E.L.L. and Durbin, R.** (1995). A dot-matrix program with dynamic threshold control suited for genomic DNA and protein sequence analysis. *Gene*. **167**(2): GC1-10.
113. **Yokoyama, E., Matsuzaki, Y., Doi, K., and Ogata, S.** (1998). Gene encoding a replication initiator protein and replication origin of conjugative plasmid pSA1.1 of *Streptomyces cyaneus* ATCC14921. *FEMS Microbiology Letters*. **169**: 103-109.
114. **Bignell, C. and Thomas, C.M.** (2001). The bacterial ParA-ParB partitioning proteins. *Journal of Biotechnology*. **91**: 1-34.
115. **Mrázek, J. and Karlin, S.** (1998). Strand compositional asymmetry in bacterial and large viral genomes. *Proceedings of The National Academy of Sciences USA*. **95**: 3720-3725.

116. **Fraser, C.M., Casjens, S., Huang, W.M., Sutton, G.G., Clayton, R., Lathigra, R., White, O., Ketchum, K.A., Dodson, R.J., Hickey, E.K., Gwinn, M., Dougherty, B., Tomb, J.-F., Fleischmann, R.D., Richardson, D., Peterson, J.D., Kerlavage, A.R., Quackenbush, J., Salzberg, S.L., Hanson, M., van Vugt, R., Palmer, N., Adams, M.D., Gocayne, J., Weidman, J., Utterback, T., Wattney, L., McDonald, L., Artiach, P., Bowman, C., Garland, S., Fujii, C., Cotton, M.D., Horst, K., Roberts, K., Hatch, B., Smith, H.O., and Venter, J.C.** (1997). Genomic sequence of a Lyme disease spirochaete, *Borrelia burgdorferi*. *Nature*. **390**: 580-586.
117. **Galli, D.M., Chen, J., Novak, K.F., and LeBlanc, D.J.** (2001). Nucleotide Sequence and Analysis of Conjugative Plasmid pVT745. *Journal of Bacteriology*. **183**(5): 1585-1594.
118. **Novak, K.F., Dougherty, B., and Peláez, M.** (2001). *Actinobacillus actinomycetemcomitans* harbours type IV secretion system genes on a plasmid and in the chromosome. *Microbiology*. **147**: 3027-3035.
119. **Katz, M.E., Strugnell, R.A., and Rood, J.I.** (1992). Molecular Characterization of a Genomic Region Associated with Virulence in *Dichelobacter nodosus*. *Infection and Immunity*. **60**(11): 4586-4592.
120. **Alonso, J.C., Weise, F., and Rojo, F.** (1995). The *Bacillus subtilis* Histone-like Protein Hbsu Is Required for DNA Resolution and DNA Inversion Mediated by the β Recombinase of Plasmid pSM19035. *The Journal of Biological Chemistry*. **270**(7): 2938-2945.
121. **Patrick, S., Parkhill, J., McCoy, L.J., Lennard, N., Larkin, M.J., Collins, M., Sczaniecka, M., and Blakely, G.** (2003). Multiple inverted DNA repeats of *Bacteroides fragilis* that control polysaccharide antigenic variation are similar to the hin region inverted repeats of *Salmonella typhimurium*. *Microbiology*. **149**: 915-924.
122. **Krinos, C.M., Coyne, M.J., Weinacht, K.G., Tzianabos, A.O., Kasper, D.L., and Comstock, L.E.** (2001). Extensive surface diversity of a commensal microorganism by multiple DNA inversions. *Nature*. **414**: 555-558.
123. **Dworkin, J. and Blaser, M.J.** (1996). Generation of *Campylobacter fetus* S-layer protein diversity utilizes a single promoter on an invertible DNA segment. *Molecular Microbiology*. **19**(6): 1241-1253.
124. **Park, S.F.** (2000). Environmental Regulatory Genes. In *Campylobacter*, p. 423-440, 2nd edition. Nachamkin, I. and Blaser, M.J., Editors. ASM Press: Washington, D.C.

125. **Peterson, L., Larsen, T.S., Ussery, D.W., On, S.L.W., and Krogh, A.** (2003). RpoD Promoters in *Campylobacter jejuni* Exhibit a Strong Periodic Signal Instead of a -35 Box. *Journal of Molecular Biology*. **326**: 1361-1372.
126. **Wösten, M.M.S.M., Boeve, M., Koot, M.G.A., van Nuenen, A.C., and van der Zeijst, B.A.M.** (1998). Identification of *Campylobacter jejuni* Promoter Sequences. *Journal of Bacteriology*. **180**(3): 594-599.
127. **Bacon, D.J., Alm, R.A., Hu, L., Hickey, T.E., Ewing, C.P., Batchelor, R.A., Trust, T.J., and Guerry, P.** (2002). DNA sequence and mutational analyses of the pVir plasmid of *Campylobacter jejuni* 81-176. *Infection and Immunity*. **70**(11): 6242-6250.
128. **Batchelor, R.A., Pearson, B.M., Friis, L.M., Guerry, P., and Wells, J.M.** (2004). Nucleotide sequences and comparison of two large conjugative plasmids from different *Campylobacter* species. *Microbiology*. **150**: 3507-3517.
129. **Cossart, P., Boquet, P., Normark, S., and Rappuoli, R.,** *Cellular Microbiology*. 2000, Washington D. C.: ASM Press. 12-13.
130. **Tracz, D.M., Keelan, M., Ahmed-Bentley, J., Gibreel, A., Kowalewska-Grochowska, K., and Taylor, D.E.** (2005). pVir and Bloody Diarrhea in *Campylobacter jejuni* Enteritis. *Emerging Infectious Diseases*. **11**(6): 838-843.
131. **Hofreuter, D., Odenbreit, S., and Haas, R.** (2001). Natural transformation competence in *Helicobacter pylori* is mediated by the basic components of a type IV secretion system. *Molecular Microbiology*. **41**(2): 379-391.
132. **Kuipers, E.J., Israel, D.A., Kusters, J.G., and Blaser, M.J.** (1998). Evidence for a Conjugation-Like Mechanism of DNA Transfer in *Helicobacter pylori*. *Journal of Bacteriology*. **180**(11): 2901-2905.
133. **Young, G.M., Schmiel, D.H., and Miller, V.L.** (1999). A new pathway for the secretion of virulence factors by bacteria: The flagellar export apparatus functions as a protein-secretion system. *Proceedings of The National Academy of Sciences USA*. **96**: 6456-6461.
134. **Zupan, J.R., Ward, D., and Zambryski, P.** (1998). Assembly of the VirB transport complex for DNA transfer from *Agrobacterium tumefaciens* to plant cells. *Current Opinion in Microbiology*. **1**: 649-655.
135. **Byrd, D.R. and Matson, S.W.** (1997). Nicking by transesterification: the reaction catalysed by a relaxase. *Molecular Microbiology*. **25**(6): 1011-1022.

136. **Firth, N., Ippen-Ihler, K., and Skurray, R.A.** (1996). Structure and Function of the F Factor and Mechanism of Conjugation. In *Escherichia coli and Salmonella: cellular and molecular biology*, p. 2377-2401, 2nd edition. Neidhardt, F.C., et al., Editors. ASM Press: Washington D. C.
137. **Christie, P.J.** (1997). *Agrobacterium tumefaciens* T-Complex Transport Apparatus: a Paradigm for a New Family of Multifunctional Transporters in Eubacteria. *Journal of Bacteriology*. **179**(10): 3085-3094.
138. **Hendrixson, D.R. and DiRita, V.J.** (2003). Transcription of σ_{54} -dependent but not σ_{28} -dependent flagellar genes in *Campylobacter jejuni* is associated with formation of the flagellar secretory apparatus. *Molecular Microbiology*. **50**(2): 687-702.
139. **Lander, E.S. and Waterman, M.S.** (1988). Genomic Mapping by Fingerprinting Random Clones: A Mathematical Analysis. *Genomics*. **2**: 231-239.
140. **Deininger, P.L.** (1983). Random Subcloning of Sonicated DNA: Application to Shotgun DNA Sequence Analysis. *Analytical Biochemistry*. **129**: 216-223.
141. **Pedulla, M.L., Ford, M.E., Houtz, J.M., Karthikeyan, T., Wadsworth, C., Lewis, J.A., Jacobs-Sera, D., Falbo, J., Gross, J., Pannunzio, N.R., Brucker, W., Kumar, V., Kandasamy, J., Keenan, L., Bardarov, S., Kriakov, J., Lawrence, J.G., Jacobs, W.R.J., Hendrix, R.W., and Hatfull, G.F.** (2003). Origins of highly mosaic mycobacteriophage genomes. *Cell*. **113**(2): 171-182.
142. **Fry, B.N., Korolik, V., ten Brinke, J.A., Pennings, M.T.T., Zalm, R., Teunis, B.J.J., Coloe, P.J., and van der Zeijst, B.A.M.** (1998). The lipopolysaccharide biosynthesis locus of *Campylobacter jejuni* 81116. *Microbiology*. **144**: 2049-2061.
143. **Gilbert, M., Karwaski, M.-F., Bernatchez, S., Young, N.M., Taboada, E., Michniewicz, J., Cunningham, A.-M., and Wakarchuk, W.W.** (2002). The Genetic Bases for the Variation in the Lipo-oligosaccharide of the Mucosal Pathogen, *Campylobacter jejuni*: Biosynthesis of Sialylated Ganglioside Mimics in the Core Oligosaccharide. *The Journal of Biological Chemistry*. **277**(1): 327-337.
144. **Oldfield, N.J., Moran, A.P., Millar, L.A., Prendergast, M.M., and Ketley, J.M.** (2002). Characterization of the *Campylobacter jejuni* Heptosyltransferase II Gene, *waaF*, Provides Genetic Evidence that Extracellular Polysaccharide Is Lipid A Core Independent. *Journal of Bacteriology*. **184**(8): 2100-2107.

145. **Guerry, P., Szymanski, C.M., Prendergast, M.M., Hickey, T.E., Ewing, C.P., Pattarini, D.L., and Moran, A.P.** (2002). Phase Variation of *Campylobacter jejuni* 81-176 Lipooligosaccharide Affects Ganglioside Mimicry and Invasiveness In Vitro. *Infection and Immunity*. **70**(2): 787-793.
146. **Gilbert, M., Brisson, J.-R., Karwaski, M.-F., Michniewicz, J., Cunningham, A.-M., Wu, Y., Young, N.M., and Wakarchuk, W.** (2000). Biosynthesis of Ganglioside Mimics in *Campylobacter jejuni* OH4384: Identification of the Glycosyltransferase Genes, Enzymatic Synthesis of Model Compounds, and Characterization of Nanomole Amounts by 600-MHz ¹H and ¹³C NMR. *The Journal of Biological Chemistry*. **275**(6): 3896-3906.
147. **Kanipes, M.I., Holder, L.C., Corcoran, A.T., Moran, A.P., and Guerry, P.** (2004). A Deep-Rough Mutant of *Campylobacter jejuni* 81-176 Is Noninvasive for Intestinal Epithelial Cells. *Infection and Immunity*. **72**(4): 2452-2455.
148. **Thibault, P., Logan, S.M., Kelly, J.F., Brisson, J.-R., Ewing, C.P., Trust, T.J., and Guerry, P.** (2001). Identification of the Carbohydrate Moieties and Glycosylation Motifs in *Campylobacter jejuni* Flagellin. *The Journal of Biological Chemistry*. **276**(37): 34862-34870.
149. **Nuijten, P.J.M., van Asten, F.J.A.M., Gaastra, W., and van der Zeijst, B.A.M.** (1990). Structural and Functional Analysis of Two *Campylobacter jejuni* Flagellin Genes. *The Journal of Biological Chemistry*. **265**(29): 17798-17804.
150. **Nuijten, P.J.M., van den Berg, A.J.G., Formentini, I., van der Zeijst, B.A.M., and Jacobs, A.A.** (2000). DNA Rearrangements in the Flagellin Locus of a *flaA* Mutant of *Campylobacter jejuni* during Colonization of Chicken Ceca. *Infection and Immunity*. **68**(12): 7137-7140.
151. **Karlyshev, A.V., Champion, O.L., Churcher, C., Brisson, J.-R., Jarrell, H.C., Gilbert, M., Brochu, D., St Michael, F., Li, J., Wakarchuk, W., Goodhead, I., Sanders, M., Stevens, K., White, B., Parkhill, J., Wren, B.W., and Szymanski, C.M.** (2005). Analysis of *Campylobacter jejuni* capsular loci reveals multiple mechanisms for the generation of structural diversity and the ability to form complex heptoses. *Molecular Microbiology*. **55**(1): 90-103.
152. **Yao, R. and Guerry, P.** (1996). Molecular Cloning and Site-Specific Mutagenesis of a Gene Involved in Arylsulfatase Production in *Campylobacter jejuni*. *Journal of Bacteriology*. **178**(11): 3335-3338.

153. **Horswill, A.R. and Escalante-Semerena, J.C.** (1999). *Salmonella typhimurium* LT2 Catabolizes Propionate via the 2-Methylcitric Acid Cycle. *Journal of Bacteriology*. **181**(18): 5615-5623.
154. **Miller, W.G., Pearson, B.M., Wells, J.M., Parker, C.T., Kapitonov, V.V., and Mandrell, R.E.** (2005). Diversity within the *Campylobacter jejuni* type I restriction-modification loci. *Microbiology*. **151**: 337-351.
155. **Perry, A.C.F., Ni Bhriain, N., Brown, N.L., and Rouch, D.A.** (1991). Molecular characterization of the *gor* gene encoding glutathione reductase from *Pseudomonas aeruginosa*: determinants of substrate specificity among pyridine nucleotide-disulphide oxidoreductases. *Molecular Microbiology*. **5**(1): 163-171.
156. **Lüneberg, E., Glenn-Calvo, E., Hartmann, M., Bär, W., and Frosch, M.** (1998). The Central, Surface-Exposed Region of the Flagellar Hook Protein FlgE of *Campylobacter jejuni* Shows Hypervariability among Strains. *Journal of Bacteriology*. **180**(14): 3711-3714.
157. **Parker, C.T., Horn, S.T., Gilbert, M., Miller, W.G., Woodward, D.L., and Mandrell, R.E.** (2005). Comparison of *Campylobacter jejuni* Lipooligosaccharide Biosynthesis Loci from a Variety of Sources. *Journal of Clinical Microbiology*. **43**(6): 2771-2781.
158. **Skurnik, M., Peippo, A., and Ervelä, E.** (2000). Characterization of the O-antigen gene clusters of *Yersinia pseudotuberculosis* and the cryptic O-antigen gene cluster of *Yersinia pestis* shows that the plague bacillus is most closely related to and has evolved from *Y. pseudotuberculosis* serotype O:1b. *Molecular Microbiology*. **37**(2): 316-330.
159. **Goon, S., Kelly, J.F., Logan, S.M., Ewing, C.P., and Guerry, P.** (2003). Pseudaminic acid, the major modification on *Campylobacter* flagellin, is synthesized via the Cj1293 gene. *Molecular Microbiology*. **50**(2): 659-671.
160. **Davidson, A.L. and Chen, J.** (2004). ATP-Binding Cassette Transporters in Bacteria. *Annual Review of Biochemistry*. **73**: 241-268.
161. **Janausch, I.G., Zientz, E., Tran, Q.H., Kröger, A., and Unden, G.** (2002). C4-dicarboxylate carriers and sensors in bacteria. *Biochimica et Biophysica Acta*. **1553**: 39-56.
162. **Wilson, G.G. and Murray, N.E.** (1991). Restriction and Modification Systems. *Annual Review of Genetics*. **25**: 585-627.

163. **Mobley, H.L.T., Mendz, G.L., and Hazell, S.L.**, *Helicobacter pylori: physiology and genetics*. 2001, Washington, D. C.: ASM Press.
164. **Neidhardt, F.C., Curtis III, R., Ingraham, J.L., Lin, E.C.C., Low, K.B., Magasanik, B., Reznikoff, W.S., Riley, M., Schaechter, M., and Umberger, H.C.**, *Escherichia coli and Salmonella: cellular and molecular biology*. 2nd ed. 1996, Washington D. C.: ASM Press.
165. **Carmel-Harel, O. and Storz, G.** (2000). Roles of the glutathione- and thioredoxin-dependent reduction systems in the *Escherichia coli* and *Saccharomyces cerevisiae* responses to oxidative stress. *Annual Review of Microbiology*. **54**: 439-461.
166. **Chevalier, C., Thiberge, J.-M., Ferrero, R.L., and Labigne, A.** (1999). Essential role of *Helicobacter pylori* gamma-glutamyltranspeptidase for the colonization of the gastric mucosa of mice. *Molecular Microbiology*. **31**(5): 1359-1372.
167. **Marchant, J., Wren, B.W., and Ketley, J.M.** (2002). Exploiting genome sequence: predictions for mechanisms of *Campylobacter* chemotaxis. *Trends in Microbiology*. **10**(4): 155-159.
168. **Lomholt, H. and Kilian, M.** (1994). Antigenic relationships among immunoglobulin A1 proteases from Haemophilus, Neisseria, and Streptococcus species. *Infection and Immunity*. **62**(8): 3178-3183.
169. **Vitovski, S., Read, R.C., and Sayers, J.R.** (1999). Invasive isolates of *Neisseria meningitidis* possess enhanced immunoglobulin A1 protease activity compared to colonizing strains. *FASEB Journal*. **13**: 331-337.
170. **Poly, F., Threadgill, D., and Stintzi, A.** (2005). Genomic Diversity in *Campylobacter jejuni*: Identification of *C. jejuni* 81-176-Specific Genes. *Journal of Clinical Microbiology*. **43**(5): 2330-2338.
171. **Hendrix, R.W.** (2003). Bacteriophage genomics. *Current Opinion in Microbiology*. **6**: 506-511.
172. **Konkel, M.E., Marconi, R.T., Mead, D.J., and Cieplak JR., W.** (1994). Identification and characterization of an intervening sequence within the 23S ribosomal RNA genes of *Campylobacter jejuni*. *Molecular Microbiology*. **14**(2): 235-241.

173. **Baar, C., Eppinger, M., Raddatz, G., Simon, J., Lanz, C., Klimmek, O., Nandakumar, R., Gross, R., Rosinus, A., Keller, H., Jagtap, P., Linke, B., Meyer, F., Lederer, H., and Schuster, S.C.** (2003). Complete genome sequence and analysis of *Wolinella succinogenes*. *Proceedings of The National Academy of Sciences USA*. **100**(20): 11690-11695.
174. **MacKichan, J.K., Gaynor, E.C., Chang, C., Cawthraw, S., Newell, D.G., Miller, J.F., and Falkow, S.** (2004). The *Campylobacter jejuni* *dccRS* two-component system is required for optimal *in vivo* colonization but is dispensable for *in vitro* growth. *Molecular Microbiology*. **54**(5): 1269-1286.
175. **Henderson, I.R., Navarro-Garcia, F., and Nataro, J.P.** (1998). The great escape: structure and function of the autotransporter proteins. *Trends in Microbiology*. **6**(9): 370-378.
176. **Ng, L.K., Stiles, M.E., and Taylor, D.E.** (1987). DNA probes for identification of tetracycline resistance genes in *Campylobacter* species isolated from swine and cattle. *Antimicrobial Agents and Chemotherapy*. **31**(11): 1669-1674.
177. **Bannam, T.L., Crellin, P.K., and Rood, J.I.** (1995). Molecular genetics of the chloramphenicol-resistance transposon Tn4451 from *Clostridium perfringens*: the TnpX site-specific recombinase excises a circular transposon molecule. *Molecular Microbiology*. **16**(3): 535-551.
178. **Pao, S.S., Paulsen, I.T., and Saier Jr., M.H.** (1998). Major Facilitator Superfamily. *Microbiology and Molecular Biology Reviews*. **62**(1): 1-34.
179. **Sumby, P. and Smith, M.C.M.** (2002). Genetics of the phage growth limitation (Pgl) system of *Streptomyces coelicolor* A3(2). *Molecular Microbiology*. **44**(2): 489-500.
180. **Gennis, R.B. and Valley, S.** (1996). Respiration. In *Escherichia coli and Salmonella: cellular and molecular biology*, p. 217-261 Neidhardt, F.C., et al., Editors. ASM Press: Washington, D. C.
181. **Kranz, R., Lill, R., Goldman, B., Bonnard, G., and Merchant, S.** (1998). Molecular mechanisms of cytochrome c biogenesis: three distinct systems. *Molecular Microbiology*. **29**(2): 383-396.
182. **Schiött, T., von Wachienfeldt, C., and Hederstedt, L.** (1997). Identification and Characterization of the *ccdA* Gene, Required for Cytochrome C Synthesis in *Bacillus subtilis*. *Journal of Bacteriology*. **179**(6): 1962-1973.

183. **Simon, J., Gross, R., Einsle, O., Kroneck, P.M.H., Kröger, A., and Klimmek, O.** (2000). A NapC/NirT-type cytochrome c (NrfH) is the mediator between the quinone pool and the cytochrome c nitrite reductase of *Wolinella succinogenes*. *Molecular Microbiology*. **35**(3): 686-696.
184. **Weiner, J.H., Rothery, R.A., Sambasivarao, D., and Trieber, C.A.** (1992). Molecular analysis of dimethylsulfoxide reductase: a complex iron-sulfur molybdoenzyme of *Escherichia coli*. *Biochimica et Biophysica Acta*. **1102**: 1-18.
185. **Lascelles, J. and Calder, K.M.** (1985). Participation of Cytochromes in Some Oxidation-Reduction Systems in *Campylobacter fetus*. *Journal of Bacteriology*. **164**(1): 401-409.
186. **Baltes, N., Hennig-Pauka, I., Jacobsen, I., Gruber, A.D., and Gerlach, G.F.** (2003). Identification of Dimethyl Sulfoxide Reductase in *Actinobacillus pleuropneumoniae* and Its Role in Infection. *Infection and Immunity*. **71**(12): 6784-6792.
187. **Holland, I., Kenny, B., and Blight, M.** (1990). Hemolysin secretion from *E. coli*. *Biochimie*. **72**: 131-141.
188. **Pugsley, A.P., Kornacker, M.G., and Poquet, I.** (1991). The general protein-export pathway is directly required for extracellular pullulanase secretion in *Escherichia coli* K12. *Molecular Microbiology*. **5**(2): 343-352.
189. **Wilharm, G., Lehmann, V., Neumayer, W., Trcek, J., and Heesemann, J.** (2004). *Yersinia enterocolitica* type III secretion: Evidence for the ability to transport proteins that are folded prior to secretion. *BMC Microbiology*. **4**(1): 27-36.
190. **Weiss, A.A., Johnson, F.D., and Burns, D.L.** (1993). Molecular characterization of an operon required for pertussis toxin secretion. *Proceedings of The National Academy of Sciences USA*. **90**: 2970-2974.
191. **Reyrat, J.-M., Pelicic, V., Papini, E., Montecucco, C., Rappuoli, R., and Telford, J.L.** (1999). Towards deciphering the *Helicobacter pylori* cytotoxin. *Molecular Microbiology*. **34**(2): 197-204.
192. **Henderson, I.R. and Nataro, J.P.** (2001). Virulence Functions of Autotransporter Proteins. *Infection and Immunity*. **69**(3): 1231-1243.
193. **Brown, N.F., Logue, C.A., Boddey, J.A., Scott, R., Hirst, R.G., and Beacham, I.R.** (2004). Identification of a novel two-partner secretion system from *Burkholderia pseudomallei*. *Molecular Genetics and Genomics*. **272**: 204-215.

194. **Schiebel, E., Schwarz, H., and Braun, V.** (1989). Subcellular Location and Unique Secretion of the Hemolysin of *Serratia marcescens*. *The Journal of Biological Chemistry*. **264**(27): 16311-16320.
195. **Jacob-Dubuisson, F., Locht, C., and Antoine, R.** (2001). Two-partner secretion in Gram-negative bacteria: a thrifty, specific pathway for large virulence proteins. *Molecular Microbiology*. **40**(2): 306-313.
196. **Hugdahl, M.B., Beery, J.T., and Doyle, M.P.** (1988). Chemotactic Behavior of *Campylobacter jejuni*. *Infection and Immunity*. **56**(6): 1560-1566.
197. **Hendrixson, D.R. and DiRita, V.J.** (2004). Identification of *Campylobacter jejuni* genes involved in commensal colonization of the chick gastrointestinal tract. *Molecular Microbiology*. **52**(2): 471-484.
198. **Levit, M.N., Liu, Y., and Stock, J.B.** (1998). Stimulus response coupling in bacterial chemotaxis: receptor dimers in signalling arrays. *Molecular Microbiology*. **30**(3): 459-466.
199. **Harkey, C.W., Everiss, K.D., and Peterson, K.M.** (1994). The *Vibrio cholerae* Toxin-Coregulated-Pilus Gene *tcpI* encodes a Homolog of Methyl-Accepting Chemotaxis Proteins. *Infection and Immunity*. **62**(7): 2669-2678.
200. **St Michael, F., Szymanski, C.M., Li, J., Chan, K.H., Khieu, N.H., Larocque, S., Wakarchuk, W., Brisson, J.-R., and Monteiro, M.A.** (2002). The structures of the lipooligosaccharide and capsule polysaccharide of *Campylobacter jejuni* genome sequenced strain NCTC 11168. *European Journal of Biochemistry*. **269**: 5119-5136.
201. **Szymanski, C.M., St Michael, F., Jarrell, H.C., Li, J., Gilbert, M., Larocque, S., Vinogradov, E., and Brisson, J.-R.** (2003). Detection of Conserved *N*-Linked Glycans and Phase-variable Lipooligosaccharides and Capsules from *Campylobacter* Cells by Mass Spectrometry and High Resolution Magic Angle Spinning NMR Spectroscopy. *The Journal of Biological Chemistry*. **278**(27): 24509-24520.
202. **Connerton, P.L., Loc Carrillo, C.M., Swift, C., Dillon, E., Scott, A., Rees, C.E.D., Dodd, C.E.R., Frost, J.A., and Connerton, I.F.** (2004). Longitudinal Study of *Campylobacter jejuni* Bacteriophages and Their Hosts from Broiler Chickens. *Applied and Environmental Microbiology*. **70**(7): 3877-3883.
203. **Morgan, G.J., Hatfull, G.F., Casjens, S., and Hendrix, R.W.** (2002). Bacteriophage Mu Genome Sequence: Analysis and Comparison with Mu-like Prophages in *Haemophilus*, *Neisseria* and *Deinococcus*. *Journal of Molecular Biology*. **317**: 337-359.

204. **Buswell, C.M., Herlihy, Y.M., Lawrence, L.M., McGuiggan, J.T.M., Marsh, P.D., Keevil, C.W., and Leach, S.A.** (1998). Extended Survival and Persistence of *Campylobacter* spp. in Water and Aquatic Biofilms and Their Detection by Immunofluorescent-Antibody and -rRNA Staining. *Applied and Environmental Microbiology*. **64**(2): 733-741.
205. **Pearson, A.D., Greenwood, M., Healing, T.D., Rollins, D., Shahamat, M., Donaldson, J., and Colwell, R.R.** (1993). Colonization of Broiler Chickens by Waterborne *Campylobacter jejuni*. *Applied and Environmental Microbiology*. **59**(4): 987-996.
206. **Jefferson, K.K.** (2004). What drives bacteria to produce a biofilm? *FEMS Microbiology Letters*. **236**: 163-173.
207. **Gibreel, A., Tracz, D.M., Nonaka, L., Ngo, T.M., Connell, S.R., and Taylor, D.E.** (2004). Incidence of Antibiotic Resistance in *Campylobacter jejuni* Isolated in Alberta, Canada, from 1999 to 2002, with Special Reference to *tet*(O)-Mediated Tetracycline Resistance. *Antimicrobial Agents and Chemotherapy*. **48**(9): 3442-3450.
208. **Nachamkin, I., Ung, H., and Li, M.** (2002). Increasing fluoroquinolone resistance in *Campylobacter jejuni*, Pennsylvania, USA, 1982-2001. *Emerging Infectious Diseases*. **8**(12): 1501-1503.
209. **Avrain, L., Humbert, F., L'Hospitalier, R., Sanders, P., Vernozy-Rozand, C., and Kempf, I.** (2003). Antimicrobial resistance in *Campylobacter* from broilers: association with production type and antimicrobial use. *Veterinary Microbiology*. **96**: 267-276.
210. **Aarestrup, F.M.** (1999). Association between the consumption of antimicrobial agents in animal husbandry and the occurrence of resistant bacteria among food animals. *International Journal of Antimicrobial Agents*. **12**: 279-285.
211. **Kersulyte, D., Mukhopadhyay, A.K., Shirai, M., Nakazawa, T., and Berg, D.E.** (2000). Functional Organization and Insertion Specificity of IS607, a Chimeric Element of *Helicobacter pylori*. *Journal of Bacteriology*. **182**(19): 5300-5308.
212. **Connell, S.R., Tracz, D.M., Nierhaus, K.H., and Taylor, D.E.** (2003). Ribosomal Protection Proteins and Their Mechanism of Tetracycline Resistance. *Antimicrobial Agents and Chemotherapy*. **47**(12): 3675-3681.
213. **Yao, R., Alm, R.A., Trust, T.J., and Guerry, P.** (1993). Construction of new *Campylobacter* cloning vectors and a new mutational *cat* cassette. *Gene*. **130**(1): 127-130.

214. **Sambrook, J. and Russell, D.W.** (2001). Southern Blotting: Capillary Transfer of DNA to Membranes. In *Molecular Cloning: A laboratory manual*, p. 6.39-6.46, 3rd edition. Argentine, J., Editor. Cold Spring Harbor Laboratory Press: New York.
215. **Higuchi, R., Fockler, C., Dollinger, G., and Watson, R.** (1993). Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions. *Nature Biotechnology*. **11**(9): 1026-1030.
216. **Garnier, T., Saurin, W., and Cole, S.T.** (1987). Molecular characterization of the resolvase gene, *res*, carried by a multicopy plasmid from *Clostridium perfringens*: common evolutionary origin for prokaryotic site-specific recombinases. *Molecular Microbiology*. **1**(3): 371-376.
217. **Newman, B.J. and Grindley, N.D.F.** (1984). Mutants of the $\gamma\delta$ Resolvase: A Genetic Analysis of the Recombination Function. *Cell*. **38**: 463-469.
218. **Silverman, M. and Simon, M.** (1980). Phase Variation: Genetic Analysis of Switching Mutants. *Cell*. **19**: 845-854.
219. **Johnson, R.C., Bruist, M.F., and Simon, M.I.** (1986). Host Protein Requirements for In Vitro Site-Specific DNA Inversion. *Cell*. **46**: 531-539.
220. **Plasterk, R.H.A., Kanaar, R., and van de Putte, P.** (1984). A genetic switch *in vitro*: DNA inversion by Gin protein of phage Mu. *Proceedings of The National Academy of Sciences USA*. **81**: 2689-2692.
221. **van de Putte, P., Cramer, S., and Giphart-Gassler, M.** (1980). Invertible DNA determines host specificity of bacteriophage Mu. *Nature*. **286**: 218-222.
222. **Komano, T., Kubo, A., and Nisioka, T.** (1987). Shufflon: multi-inversion of four contiguous DNA segments of plasmid R64 creates seven different open reading frames. *Nucleic Acids Research*. **15**(3): 1165-1172.
223. **Smith, M.C.M. and Thorpe, H.M.** (2002). Diversity in the serine recombinases. *Molecular Microbiology*. **44**(2): 299-307.
224. **van den Berg, E., Zwetsloot, J., Noordermeer, I., Pannekoek, H., Dekker, B., Dijkema, R., and van Ormondt, H.** (1981). The structure and function of the regulatory elements of the Escherichia coli *uvrB* gene. *Nucleic Acids Research*. **9**(21): 5623-5643.
225. **Aiba, H.** (1983). Autoregulation of the Escherichia coli *crp* Gene: CRP Is a Transcriptional Repressor for Its Own Gene. *Cell*. **32**: 141-149.

226. **Bertucci, F., Bernard, K., Loriol, B., Chang, Y.-C., Granjeaud, S., Birnbaum, D., Nguyen, C., Peck, K., and Jordan, B.R.** (1999). Sensitivity issues in DNA array-based expression measurements and performance of nylon microarrays for small samples. *Human Molecular Genetics*. **8**(9): 1715-1722.
227. **Chissoe, S.L., Marra, M.A., Hillier, L., Brinkman, R., Wilson, R.K., and Waterston, R.H.** (1997). Representation of cloned genomic sequences in two sequencing vectors: correlation of DNA sequence and subclone distribution. *Nucleic Acids Research*. **25**(15): 2960-2966.
228. **Maurelli, A.T., Fernández, R.E., Bloch, C.A., and Rode, C.K.** (1998). "Black holes" and bacterial pathogenicity: A large genomic deletion that enhances the virulence of *Shigella* spp. and enteroinvasive *Escherichia coli*. *Proceedings of The National Academy of Sciences USA*. **95**: 3943-3948.
229. **Beliaev, A.S. and Saffarini, D.A.** (1998). *Shewanella putrefaciens mtrB* encodes an outer membrane protein required for Fe(III) and Mn(IV) reduction. *Journal of Bacteriology*. **180**(23): 6292-6297.
230. **Gaynor, E.C., Cawthraw, S., Manning, G., MacKichan, J.K., Falkow, S., and Newell, D.G.** (2004). The Genome-Sequenced Variant of *Campylobacter jejuni* NCTC 11168 and the Original Clonal Clinical Isolate Differ Markedly in Colonization, Gene Expression, and Virulence-Associated Phenotypes. *Journal of Bacteriology*. **186**(2): 503-517.
231. **Carrillo, C.D., Taboada, E., Nash, J.H.E., Lanthier, P., Kelly, J.F., Lau, P.C., Verhulp, R., Mykytczuk, O.L., Sy, J., Findlay, W.A., Amoako, K., Gomis, S., Willson, P., Austin, J.W., Potter, A., Babiuk, L., Allan, B., and Szymanski, C.M.** (2004). Genome-wide Expression Analyses of *Campylobacter jejuni* NCTC11168 Reveals Coordinate Regulation of Motility and Virulence by *flhA*. *The Journal of Biological Chemistry*. **279**(19): 20327-20338.