

## 9 Literaturverzeichnis

- Abram, D. D. und Potter, N. N. (1984)  
 Survival of *Campylobacter jejuni* at different temperatures in broth,  
 beef, chicken and cod supplemented with sodium chloride.  
*J. Food Protect.* 47, 795-800
- Achen, M., Morishita, T. Y. und Ley, E. C. (1998)  
 Shedding and colonization of *Campylobacter jejuni* in broilers from  
 day of hatch to slaughter age.  
*Avian Dis.* 42, 732-737
- Aho, M. und Hirn, J. (1988)  
 Prevalence of campylobacteria in the Finnish broiler chicken chain  
 from the producer to the consumer.  
*Acta Vet. Scand.* 29, 451-462
- Aho, M., Kauppi, M. und Hirn, J. (1988)  
 The stability of small number of campylobacteria in four different  
 transport media.  
*Acta Vet. Scand.* 28, 437-442
- Allos, B. M. und Blaser, M. J. (1995)  
*C. jejuni* and the expanding spectrum of related infections.  
*Clin. Infect. Dis.* 20, 1092-1101
- Altekruuse, S. F., Swerdlow, D. L. und Stern, N. J. (1998)  
 Microbial food borne pathogens.  
*Campylobacter jejuni*.  
*Veterinary Clinical North America Food Animal Practice* 14, 31-40
- Altekruuse, S. F., Stern, N. J., Fields, P. I. und Swerdlow, D. L. (1999)  
*Campylobacter jejuni*-An emerging foodborne pathogen.  
*Emerg. Infect. Dis.* 5, 28-35
- Alter, T. und Fehlhaber, K. (2003)  
 Einsatz der AFLP-Analyse zur molekularbiologischen  
 Feintypisierung von *Campylobacter jejuni*-Stämmen aus  
 Putenbeständen.  
*Berl. Münch. Tierärztl. Wschr.* 116, 454-459

- Altmeyer, M., Krabisch, P. und Dorn, P. (1985)  
Zum Vorkommen und zur Verbreitung von *Campylobacter jejuni/coli* in der Jungmastgeflügel-Produktion.  
1. Mitteilung, Dtsch. tierärztl. Wschr. 92, 456-459
- Altmeyer, M., Krabisch, P. und Dorn, P. (1986)  
Zum Vorkommen und zur Verbreitung von *Campylobacter jejuni/coli* in der Jungmastgeflügel-Produktion.  
2. Mitteilung: Untersuchungen zur Charakterisierung, zum Resistenzverhalten und zur Pathogenität von *Campylobacter jejuni/coli* vom Geflügel.  
2. Mitteilung, Dtsch. tierärztl. Wschr. 93, 469-472
- Annan-Prah, A. und Janc, M. (1988)  
The mode of spread of *Campylobacter jejuni/coli* to broiler flocks.  
J. Vet. Med. B. 35, 11-18
- Anonymous (1993)  
*Campylobacter-* und *Helicobacter*-Diagnostik.  
In: Oxoid Handbuch, 5. Auflage  
Unipath GmbH, 110-122
- Anonymous (1995a)  
Internatinal Food Safety News.  
Vol. 4, No. 3, ISSN 0960 9784  
Research information Ltd, 4-5
- Anonymous (1995b)  
Microbiology of food and animal feeding stuffs-Horizontal method for the detection of *Campylobacter* growing at 41.5°C.  
ISO 10727/1995, ISO 10272:1995/Cor.1:1996(E).
- Anonymous (1998)  
Microorganisms in foods 5. Characteristics of microbial pathogens.  
International Commission on Microbiological Specifications for Foods, Blackie Academic & Professional, London, 45-65
- Anonymous (1999)  
Trends and sources of zoonotic agents in animals, feedstuffs, food and man in the European Union in 1997.  
Part 1. Document No. VI/8495/98-Rev. 2 of the European

Commission, Community Reference Laboratory on the  
Epidemiology of Zoonoses, BgVV, Berlin, Germany

Anonymous (2000a)

CampyNet Website

<http://campynet.vetinst.dk/PFGE.html>

Anonymous (2000b)

The increasing incidence of human campylobacteriosis.

Report and proceedings of a WHO consultation of experts,

Copenhagen, Denmark, 21-25 November 2000 (draft version)

Anonymous (2002)

Microbiology of food and animal feeding stuffs-Horizontal method  
for the detection and enumeration of *Campylobacter* growing at  
41.5°C-Part 1: detection method.

ISO/CD 10727-1

Aspinall, G. O., Fujimoto, S., McDonald, A. G., Pang, H., Kurjanczyk, L. A. und  
Penner, J. L. (1994)

Lipopolysaccharides from *Campylobacter jejuni* associated with  
Guillain-Barré syndrome patients mimic human gangliosides in  
structure.

Infect. Immun. 62, 2122-2125

Atabay, H. I. und Corry, J. E. L. (1997)

The prevalence of campylobacters and arcobacters in broiler  
chickens.

J. Appl. Microbiol. 83, 691-626

Atanassova, V., Alterneier, J., Kruse, K. P. und Dolzinski, B. (1998)

The detection of *Salmonella* and *Campylobacter* in fresh poultry.  
Fleischwirtschaft 78, 364-366

Atanassova, V. und Ring, Ch. (2000)

*Campylobacter*-ein bedeutender Infektionserreger.  
Fleischwirtschaft 5, 78-82

Baillon, M. L., van Vliet, A. H., Ketley, J. M., Constantinidou, C. und Penn, C. W.  
(1999)

An iron-regulated alkyl hydroperoxide reductase (AhpC) confers  
aerotolerance and oxidative stress resistance to the

- microaerophilic pathogen *Campylobacter jejuni*.  
*J. Bacteriol.* 181, 4798-4804
- Baird, R. M., Corry, J. E. L. und Curtis, G. D. (Hrsg.) (1987)  
 Pharmacopoeia of culture media for food microbiology.  
*Int. J. Food Microbiol.* 5, 212-213, 250-253, 268-269
- Baker, R. C., Paredes, M. D. C. und Qureshi, R. Q. (1987)  
 Prevalence of *Campylobacter jejuni* in eggs and poultry meat in  
 New York State.  
*Poultry Science* 66, 1766-1770
- Barros-Velázquez, J., Jiménez, A. und Villa, T. G. (1999)  
 Isolation and typing methods for the epidemiologic investigation of  
 thermotolerant campylobacters.  
*Int. Microbiol.* 2, 217-226
- Barrow, P. A. und Page, K. (2000)  
 Inhibition of colonisation of the alimentary tract in young chickens  
 with *Campylobacter jejuni* by pre-colonisation with strains of *C.  
 jejuni*.  
*FEMS Microbiol. Lett.* 182, 87-91
- Bär, W. und Fricke, G. (1987)  
 Rapid and improved gas-liquid chromatography technique for  
 detection of hippurate hydrolysis by *Campylobacter jejuni* and  
*Campylobacter coli*.  
*J. Clin. Microbiol.* 25, 1776-1778
- Baumgartner, A., Grand, M., Liniger, M. und Simmen, A. (1995)  
*Campylobacter* contaminations of poultry liver – consequences for  
 food handlers and consumers.  
*Arch. Lebensmittelhyg.* 46, 11-12
- Beckmann, L., Müller, M. und Klein, G. (2002)  
 Anwendung der Puls-Feld-Gelelektrophorese (PFGE) bei  
*Campylobacter*-Betrachtung der genetischen Instabilität und  
 Methodenvereinheitlichung  
 In: Proceedingband zur 42. Arbeitstagung des Arbeitsgebietes  
 Lebensmittelhygiene der DVG  
 Verlag der DVG, Gießen, 393-397

- Beery, J. T., Hugdahl, M. B. und Doyle, M. P. (1988)  
Colonization of gastrointestinal tracts of chicks by *Campylobacter jejuni*.  
*Appl. Environ. Microbiol.* 54, 2365-2370
- Benjamin, J., Leaper, S., Owen, R. J. und Skirrow, M. B. (1983)  
Description of *Campylobacter laridis*, a new species comprising  
the nalidixic acid resistant thermophilic *Campylobacter* (NARTC)  
group.  
*Curr. Microbiol.* 8, 231-238
- Berndtson, E., Danielsson-Tham, M.-L. und Engvall, A. (1991a)  
Experimental colonization of mice with *Campylobacter jejuni*.  
*Vet. Microbiol.* 41, 183-188
- Berndtson, E., Danielsson-Tham, M.-L. und Engvall, A. (1991b)  
Colonization of mice and houseflies with *Campylobacter jejuni*.  
In: Ruiz-Palacios, G. M., Calva, E. und Ruiz-Palacios, B. R.  
(Hrsg.): *Campylobacter V*, Proceedings of the 5<sup>th</sup> International  
Workshop on Campylobacter Infections, Mexico, Puerto Vallarta,  
58-60
- Berndtson, E., Tivemo, M. und Engvall, A. (1992)  
Distribution and numbers of *Campylobacter* in newly slaughtered  
broiler chickens and hens.  
*Int. J. Food Microbiol.* 15, 45-50
- Berndtson, E., Emanuelson, U., Engvall, A. und Danielsson-Tham, M.-L.  
(1996a)  
A 1-year epidemiological study of *Campylobacters* in 18 Swedish  
chicken farms.  
*Preventive Vet. Med.* 26, 167-185
- Berndtson, E., Danielsson-Tham, M.-L. und Engvall, A. (1996b)  
*Campylobacter* incidence on a chicken farm and the spread of  
*Campylobacter* during the slaughter process.  
*Int. J. Food Microbiol.* 32, 35-47
- Berrang, M. E. und Dickens, J. A. (2000)  
Presence and level of *Campylobacter* spp. on broiler carcasses  
throughout the processing plant.

- J. Appl. Poult. Res. 9, 43-47
- Berrang, M. E., Buhr, R. J., Cason, J. A. und Dickens, J. A. (2001)  
Broiler carcass contamination with *Campylobacter* from feces  
during defeathering.  
J. Food Protect. 64, 2063-2066
- Beumer, R. R., de Vries, J. und Rombouts, F. M. (1992)  
*Campylobacter jejuni* non-culturable coccoid cells.  
Int. J. Food Microbiol. 15, 153-163
- Black, R. E., Levine, M. M., Clements, M. L., Hughes, T. P. und Blaser, M. J.  
(1988)  
Experimental *Campylobacter jejuni* infection in humans.  
J. Infect. Dis. 157, 472-479
- Blankenship, L. C. und Craven S. E. (1982)  
*Campylobacter jejuni* survival in chicken meat as a function of  
temperature.  
Appl. Environ. Microbiol. 44, 88-92
- Blaser, M. J., Cravens, J., Powers, R. und Wang, W. L. (1978)  
*Campylobacter enteritis* associated with canine infection.  
Lancet 2, 979-981
- Blaser, M. J., LaForce, M. F., Wilson, N. A. und Wang, W.-L. L. (1980a)  
Reservoirs for human campylobacteriosis.  
J. Infect. Dis. 141, 665-669
- Blaser, M. J., Moss, C. M. und Weaver, R. (1980b)  
Cellular fatty acid composition of *Campylobacter fetus*.  
J. Clin. Microbiol. 11, 448-451
- Blaser, M. J., Hardesty, H. L., Powers, B. und Wang, W.-L. L. (1980c)  
Survival of *Campylobacter fetus* subsp. *jejuni* in biological milieus.  
J. Clin. Microbiol. 11, 309-313
- Blaser, M. J., Waldman, R. J., Barret, T. und Erlandson, A. L. (1981)  
Outbreaks of *Campylobacter enteritis* in two extended families:  
evidence for person-to-person transmission.  
J. Pediatr. 98, 254-257
- Blaser, M. J., Taylor, D. N. und Feldman, R. A. (1983)  
Epidemiology of *Campylobacter jejuni* infections.

- Epidemiol. Rev. 5, 157-176
- Blaser, M. J., Smith, P. F., Wang, W.-L. L. und Hoff, J. C. (1986)  
Inactivation of *Campylobacter jejuni* by Chlorine and  
Monochloramine.
- Appl. Environ. Microbiol. 51, 307-311
- Bolder, N. M. und Mulder, R. W. A. W. (1991)  
Minimum infective number of *Campylobacter* bacteria for broilers.  
In: Blankenship, L. C. (Hrsg.): Colonization control of human  
bacterial enteropathogens in poultry.  
Academic Press Inc., San Diego, CA, 353-357
- Bolton, F. J. und Robertson, L. (1982)  
A selective medium for isolating *Campylobacter jejuni/coli*.  
J. Clin. Pathol. 35, 462-467
- Bolton, F. J. und Coates, D. (1983)  
A comparison of microaerobic systems for the culture of  
*Campylobacter jejuni* and *Campylobacter coli*.  
Eur. J. Clin. Microbiol. 2, 105-110
- Bolton, F. J., Hinchliffe, P. M., Coates, D. und Robertson, L. (1982)  
A most probable number method for estimating small numbers of  
campylobacters in water.  
J. Hyg.(Cambridge) 89, 185-190
- Bolton, F. J., Hutchinson, D. N. und Coates (1984a)  
Blood-free selective medium for the isolation of *Campylobacter jejuni* from faeces.  
J. Clin. Microbiol. 19, 169-171
- Bolton, F. J., Holt, A. V. und Hutchinson, D. N. (1984b)  
*Campylobacter* biotyping scheme of epidemiological value.  
J. Clin. Pathol. 37, 677-681
- Bolton, F. J., Williamson, J. K., Allen, G., Wareing, D. R. A. und Frost, J. A.  
(1999)  
Prevalence of *C. jejuni* and *C. coli* in meat products and packaging  
sold at retail: a potential public health problem.  
10<sup>th</sup> International Workshop on *Campylobacter, Helicobacter* and  
Related Organisms.

- Baltimore, USA, 61
- Boucher, S. N., Slater, E. R., Chamberlain, A. H. und Adams, M. R. (1994)  
 Production and viability of coccoid forms of *Campylobacter jejuni*.  
*J. Appl. Bacteriol.* 77, 303-307
- Boxall, N. S., Davies, P. R., Perkins, N., Fenwick, S., Jones, B., Marks, D.,  
 Diprose, R. (2001)  
*C. jejuni* – The invasion of the chicken sheds.  
 Proc. 11<sup>th</sup> International Workshop on *Campylobacter, Helicobacter*  
 and Related Organisms, Freiburg: IJMM 291, Suppl. 31, 90
- Bradbury, W. C. und Munroe, D. L. G. (1985)  
 Occurrence of plasmids and antibiotic resistance among  
*Campylobacter jejuni* and *Campylobacter coli* isolated from  
 healthy and diarrheic animals.  
*J. Clin. Microbiol.* 22, 339-346
- Brouwer, R. M., Mertens, J. A., Siem, T. H. und Katchaki, J. (1979)  
 An explosive outbreak of *Campylobacter enteritis* in soldiers.  
*Antonie Leeuwenhoek* 45, 517-519
- Bryan, F. L. und Doyle, M. P. (1995)  
 Health risks and consequences of *Salmonella* and *Campylobacter*  
*jejuni* in raw poultry.  
*J. Food Protect.* 58, 326-344
- Buck, G. E., Parshall, K. A. und Davis, C. P., (1983)  
 Electron microscopy of the coccoid form of *Campylobacter jejuni*.  
*J. Clin. Microbiol.* 18, 420-421
- Burnens, A. P., Wagner, J., Lior, H., Nicolet, J. und Frey, J. (1995)  
 Restriction fragment length polymorphism among the flagellar  
 genes of the Lior heatlable serogroup reference strains and field  
 strains of *Campylobacter jejuni* and *C. coli*.  
*Epidemiol. Infect.* 114, 423-431
- Buswell, C. M., Herlihy, Y. M., Lawrence, L. M., McGuigan, J. T., Marsh, P. D.,  
 Keevil, C. W. und 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.

- Appl. Environ. Microbiol. 64, 733-741
- Butler, R. C., Lund, V. und Carlson, D. A. (1987)  
Susceptibility of *Campylobacter jejuni* and *Yersinia enterocolitica* to UV radiation.
- Appl. Environ. Microbiol. 53, 375-378
- Butzler, J. P. und Skirrow, M. B. (1979)  
*Campylobacter* enteritis.  
Clin. Gastroenterol. 8, 737-765
- Butzler, J. P., Dekeyser, P., Detrain, M. und Dehaen, F. (1973)  
Related vibrio in stools.  
J. Pediatr. 82, 493-495
- Butzler, J. P., De Boeck, M. und Goossens, H. (1983)  
New selective medium for isolation of *Campylobacter jejuni* from faecal specimens (letter)  
*Lancet* 8328, 818
- Byrd, J. A., Corrier, D. E., Hume, M. E., Bailey, R. H., Stanker, L. H. und Hargis, B. M. (1998)  
Effect of feed withdrawal on *Campylobacter* in the crops of market-age broiler chickens.  
Avian Dis. 42, 802-806
- Carle, G. F., Frank, M. und Olson, M. V. (1986)  
Electrophoretic separations of large DNA molecules by periodic inversion of the electric field.  
Science 232, 65-68
- Cason, J. A., Bailey, J. S., Stern, N. J., Wittenmore, A. D. und Cox, N. A. (1997)  
Relationship between aerobic bacteria, salmonellae and *Campylobacter* on broiler carcasses.  
Poultry Science 76, 1037-1041
- Cason, J. A., Buhr, R. J., Dickens, J. A., Musgrove, M. T. und Stern, N. J. (1999)  
Carcass microbiological quality following intermittent scalding and defeathering.  
J. Appl. Poult. Res. 8, 368-373

Cawthraw, S. A., Ayling, R., Nuijten, P., Wassenaar, T. M. und Newell, D. G.

(1994)

Isotype, specificity, and kinetics of systemic and mucosal antibodies to *Campylobacter jejuni* antigens, including flagellin, during experimental oral infections of chickens.

Avian Dis. 38, 341-349

Cawthraw, S. A., Wassenaar, T. M., Ayling, R. und Newell, D. G. (1996)

Increased colonization potential of *Campylobacter jejuni* strain 81116 after passage through chickens and its implication on the rate of transmission within flocks.

Epidemiol. Infect. 117, 213-215

Champion, O. L., Best, E. L. und Frost, J. A. (2002)

Comparison of pulsed-field gel electrophoresis and amplified fragment length polymorphism techniques for investigating outbreaks of enteritis due to campylobacters.

J. Clin. Microbiol. 40, 2263-2265

Chu, G. (1989)

Pulsed field gel electrophoresis in contour-clamped homogeneous electric fields for the resolution of DNA by size or topology.

Electrophoresis 10, 290-295

Chu, G., Vollrath, D. und Davis, R. W. (1986)

Separation of large DNA molecules by contour-clamped homogeneous electric fields.

Science 234, 1582-1585

Corry, J. E. L. und Atabay, H. I. (2001)

Poultry as a source of *Campylobacter* and related organisms.

J. Appl. Microbiol. 90, 96-114

Corry, J. E. L., Post, D. E., Colin, P. und Laisney, M. J. (1995)

Culture media for the isolation of campylobacters.

Int. J. Food Microbiol. 26, 43-76

Curtis, M. A. (1982)

Cellular fatty acid profiles of campylobacters.

In: Newell, D.G.(Hrsg.): *Campylobacter Epidemiology*,

Pathogenesis and Biochemistry.

- MTP Press Limited, Lancaster, Boston, 234-241
- Dang, B. D., Pedersen, K. und Madsen, M. (2001)  
Prevalence of *Campylobacter* spp. in Danish broiler production: a one year study of individual chicken.  
Supplement 31, 11<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.  
Int. J. Med. Microbiol. 291, 38-39
- De Boer, E. und Humphrey, T. J. (1991)  
Comparison of methods for the isolation of thermophilic campylobacters from chicken products.  
Microbiol. Ecol. Health Dis. 4 (Special Issue), S43
- De Boer, P., Wagenaar, J. A., Achterberg, R. P., van Putten, J. P. M., Schouls, L. M. und Duim, B. (2002)  
Generation of *Campylobacter jejuni* genetic diversity in vivo.  
Molecul. Microbiol. 44, 351-359
- Dekeyser, P., Gossuin-Detrain, N., Butzler, J.P. und Sternon, J. (1972)  
Acute enteritis due to related vibrio: first positive stool cultures.  
J. Infect. Dis. 125, 390-392
- Deming, M. S., Tauxe, R. V., Blake, P. A., Dixon, S. E., Fowler, B. S., Jones, T. S., Lockamy, E. A., Patton, C. M. und Sikes, R. O. (1987)  
*Campylobacter* enteritis at a university: transmission from eating chicken and from cats.  
Am. J. Epidemiol. 126, 526-534
- De Mol, P. und Bosmans, E. (1978)  
*Campylobacter* enteritis in Central Africa.  
Lancet I, 8064, 604 (Letter)
- Denis, M., Refrégier-Petton, J., Laisney, M.-J., Ermel, G. und Salvat, G. (2001)  
*Campylobacter* contamination in French chicken production from farm to consumers. Use of a PCR assay for detection and identification of *Campylobacter jejuni* and *Campylobacter coli*.  
J. Appl. Microbiol. 91, 255-267
- De Wit, M. A., Koopmans, M. P., Kortbeek, L. M., van Leeuwen, N. J., Vinje, J. und van Duynhoven, Y. T. (2001)  
Etiology of gastroenteritis in sentinel general practices in the

- netherlands.
- Clin. Infect. Dis. 33, 280-288
- Dickins, M. A., Franklin, S., Stefanova, R., Schutze, G. E., Eisenach, K. D., Wesley, I. und Cave, M. D. (2002)
- Diversity of *Campylobacter* Isolates from retail poultry carcasses and from humans as demonstrated by pulsed-field gel electrophoresis.
- J. Food Protect. 65, 957-962
- Doyle, L. P. (1944)
- A vibrio associated with swine dysentery.
- Am. J. Vet. Res. 5, 3-5
- Doyle, L. P. (1948)
- The etiology of swine dysentery.
- Am. J. Vet. Res. 9, 50-51
- Doyle, M. P. und Roman, D. J. (1981)
- Growth and survival of *Campylobacter fetus* subsp. *jejuni* as a function of temperature and pH.
- J. Food Protect. 44, 596-601
- Doyle, M. P. und Roman, D. J. (1982a)
- Response of *Campylobacter jejuni* to sodium chloride.
- Appl. Environ. Microbiol. 43, 561-565
- Doyle, M. P. und Roman, D. J. (1982b)
- Recovery of *Campylobacter jejuni* and *Campylobacter coli* from inoculated foods by selective enrichment.
- Appl. Environ. Microbiol. 43, 1343-1353
- Doyle, M. P. und Roman, D. J. (1982c)
- Sensitivity of *Campylobacter jejuni* to drying.
- J. Food Protect. 45, 507-510
- Duim, B., Wassenaar, T. M., Rigter, A. und Wagenaar, J. (1999)
- High-resolution genotyping of *Campylobacter* strains isolated from poultry and humans with amplified fragment length polymorphism fingerprinting.
- Appl. Environ. Microbiol. 65, 2369-2375

- Elkarrif, Z. und Megraud, F. (1986)  
 Characterization of thermophilic *Campylobacter*: I. Carbon-substrate utilization tests.  
*Curr. Microbiol.* 13, 117-122
- Endtz, H. P., Ruijs, G. J., Van Klingerden, B., Jansen, W. H., Van der Reyden, T. und Mouton, R. P. (1991)  
 Quinolone resistance in *Campylobacter* isolated from man and poultry following the introduction of fluoroquinolones in veterinary medicine.  
*J. Antimicrob. Chemother.* 27, 199-208
- Engberg, J., Gerner-Smidt, P., Scheutz, F., Nielsen, E. M., On, S. L. W. und Molbak, K. (1998)  
 Waterborne *Campylobacter jejuni* infection in a Danish town-a six week continuous source outbreak.  
*Clin. Microbiol. Infect.* 4, 648-656
- Engberg, J., Aarestrup, F. M., Taylor, D. E., Gerner-Smidt, P. und Nachamkin, I. (2001)  
 Quinolone and macrolide resistance in *Campylobacter jejuni* and *Campylobacter coli*: resistance mechanisms and trends in human isolates.  
*Emerg. Infect. Dis.* 7, 24-34
- Engvall, A., Bergqvist, A., Sandstedt, K. und Danielsson-Tham, M. L. (1986)  
 Colonization of broilers with *Campylobacter* in conventional broiler-chicken flocks.  
*Acta Vet. Scand.* 27, 540-547
- Epling, L. K., Carpenter, J. A. und Blankenship, L. C. (1993)  
 Prevalence of *Campylobacter* spp. and *Salmonella* spp. on pork carcasses and the reduction effected by spraying with lactic acid.  
*J. Food Protect.* 56, 536-537, 540
- Escherich, Th. (1884)  
 Verhandlungen über Cholera im Ärztlichen Verein München.  
*Münch. med. Wschr.* 31, 561-564
- Escherich, Th. (1886)  
 Beiträge zur Kenntnis der Darmbakterien. II. *Vibrio felineus*.

Münch. med. Wschr. 33, 759-763

Europäische Kommission (2003)

Trends and sources of zoonotic agents in animals, feedingstuffs, food and man in the European Union and Norway in 2001.

European Commission, Health&Consumer Protection Directorate-General, Directorate D- Food Safety: production and distribution chain, D2- Biological risks, SANCO/56/2003, 203, 209

Evans, S. J. (1992)

Introduction and spread of thermophilic campylobacters in broiler flocks.

Vet. Rec. 131, 574-576

Evans, S. J. und Sayers, A. R. (2000)

A longitudinal study of *Campylobacter* infection of broiler flocks in Great Britain.

Preventive Vet. Med. 46, 209-223

Fallon, R. V., Doolan, I., O'Sullivan, N. A., Smith, T. und Carroll, C. V. (2001)

Isolation of *Campylobacter* species from farm to fork in Ireland.

Supplement 31, 11<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.

Int. J. Med. Microbiol. 291, 38

Fernández, H. und Pisón, V. (1996)

Isolation of thermotolerant species of *Campylobacter* from commercial livers.

Int. J. Food Microbiol. 29, 75-80

Fernández, H., Vergara, M. und Tapia, F. (1985)

Desiccation resistance in thermotolerant *Campylobacter* species.

Infection 13, 197

Finch, M. und Blake, P. (1985)

Food-borne outbreaks of campylobacteriosis: The United States experience, 1980-1982

Am. J. Epidemiol. 122, 262-268

Fischer, G. (1992)

Krankheiten des Wirtschaftsgeflügels.

Gustav Fischer Verlag, Jena, Stuttgart, Band 2, 171-175

- Fluckey, W. M., Sanchez, M. X., McKee, S. R., Smith, D., Pendleton, E. und Brashears, M. M. (2003)  
 Establishment of a microbiological profile for an air-chilling poultry operation in the United States.  
*J. Food Protect.* 66, 272-279
- Flynn, O. M. J., Blair, I. S. und McDowell, D. A. (1994)  
 Prevalence of *Campylobacter* species on fresh retail chicken wings in Northern Ireland.  
*J. Food Protect.* 57, 334-336
- Friedman, C. R., Neimann, J., Wegener, H. C. und Tauxe, R. V. (2000)  
 Epidemiology of *Campylobacter jejuni* infections in the United States and other industrialized nations.  
 In: Nachamkin, I. und Blaser, M. J. (Hrsg.):  
*Campylobacter*.  
 Am. Society for Microbiol., Washington, D. C., 121-138
- Fries, R., Bergmann, V. und Fehlhaber, K. (2001)  
 Praxis der Geflügelfleischuntersuchung.  
 Schlütersche GmbH & Co. KG, Hannover, 40, 44, 45
- Fry, B. N., Korolik, V., ten Brinke, J. A., Pennings, M. T., Zalm, R., Teunis, B. J., Coloe, P. J. und van der Zeijst, B. A. M. (1998)  
 The lipopolysaccharid biosynthesis locus of *Campylobacter jejuni* 81116.  
*Microbiology* 144, 2049-2061
- Fujimoto, S., Allos, M. B., Misawa, N., Patton, C. M. und Blaser, M. J. (1997)  
 Restriction fragment length polymorphism analysis and random amplified polymorphic DNA analysis of *Campylobacter jejuni* strains isolated from patients with Guillain-Barre syndrome.  
*J. Infect. Dis.* 176, 1105-1108
- Gamaleia, N. (1888) zit. nach Gratzl, E. und Köhler, H. (1966)  
 In: Geflügelkrankheiten.  
*Ann. Inst. Pasteur* 2, 510, 385-393
- Garrity, G. M., Johnson, K. L., Bell, J. und Searles, D. B. (2002)  
 Taxonomic Outline of the Bergey's Manual® of Systematic Bacteriology, 2<sup>nd</sup> edition, Release 3.0 July 2002.

www.bergeysoutline.com, 121-123

Geilhausen, B., Koenen, R. und Mauff, G. (1995)

Antimicrobial sensitivity of *Campylobacter* isolates.

In: Newell, D. G., Ketley, J., Feldmann, R. A. (Hrsg.): Abstracts 8<sup>th</sup> International Workshop on *Campylobacters, Helicobacters* and Related Organisms; Winchester, UK, 10-13.

Central Veterinary Laboratory Weybridge, UK, Abstract 3F6

Geilhausen, B., Schütt-Gerowitz, H., Aleksic, S., Koenen, R., Mauff, G. und

Pulverer, G. (1996)

*Campylobacter* and *Salmonella* contaminating fresh chicken meat.

Zbl. Bakt. 284, 241-245

Genigeorgis, C., Hassuneh, M. und Collins, P. (1985)

Epidemiologic aspects of *Campylobacter* infection and contamination in the chain of poultry meat production.

In: Pearson, A. D., Skirrow, M. B., Lior, H. und Rowe, B. (Hrsg.):

*Campylobacter* III. Proceedings of the Third International

Workshop on *Campylobacter* Infections, Ottawa, 7.-10. Juli 1985.

P. H. L. S., London, 268-269

Genigeorgis, C., Hassuneh, M. und Collins, P. (1986)

*Campylobacter jejuni* infection on poultry farms and its effect on poultry meat contamination during slaughtering.

J. Food Protect. 49, 895-903

Gibson, J. R., Fitzgerald, C. und Owen, R. J. (1995)

Comparison of PFGE, ribotyping and phage-typing in the epidemiological analysis of *Campylobacter jejuni* serotype HS2 infections.

Epidemiol. Infect. 115, 215-225

Gibson, J. R., Lorenz, E. und Owen, R. J. (1997)

Lineages within *Campylobacter jejuni* defined by numerical analysis of pulsed-field gel electrophoretic DNA profiles.

J. Med. Microbiol. 46, 157-163

Gill, C.O. und Harris, L. M. (1983)

Limiting conditions of temperature and pH for growth of "thermophilic" *Campylobacters* on solid media.

- J. Food Protect. 46, 767-768  
 Gill, C.O. und Harris, L. M. (1984a)  
     Hamburgers and broiler chickens as potential sources of human  
     *Campylobacter enteritis*.  
     J. Food Protect. 47, 96-99  
 Gill, C.O. und Harris, L. M. (1984b)  
     Survival and growth of *Campylobacter fetus* subsp. *jejuni* on meat  
     and in cooked foods.  
     Appl. Environ. Microbiol. 44, 259-263  
 Glünder, G. (1993)  
     *Campylobacter*-Infektionen beim Geflügel: Epizootiologie,  
     Bedeutung und Bekämpfungsmöglichkeiten.  
     Arch. Geflügelk. 57, 241-248  
 Glünder, G., Hinz, K.-H. und Siegmann, O. (1988)  
     Zum Vorkommen von Bakterien der Gattung *Campylobacter* bei  
     Vögeln.  
     Tierärztl. Umschau 43, 694-699  
 Glünder, G. und Wieliczko, A. (1990)  
     Zur Pathogenität von *Campylobacter jejuni* als Monoinfektion und  
     als Mischinfektion mit *Escherichia coli* O78:K80 bei Broilern.  
     Berl. Münch. Tierärztl. Wschr. 103, 302-305  
 Goodwin, C. S., Armstrong, J. A., Chilvers, T., Peters, M., Collins, M. D., Sly, L.,  
     McConnell, W. und Harper, W. E. S. (1989)  
     Transfer of *Campylobacter pylori* and *Campylobacter mustelae* to  
     *Helicobacter* gen. nov. as *Helicobacter pylori* comb. nov. and  
     *Helicobacter mustelae* comb. nov. respectively.  
     Int. J. Syst. Bacteriol. 39, 397-405  
 Grajewski, B. A., Kusek, J. W. und Gelfand, H. M. (1985)  
     Development of a bacteriophage typing system for *Campylobacter jejuni* and *Campylobacter coli*.  
     J. Clin. Microbiol. 22, 13-18  
 Grant, K. A. und Park, S. F., (1995)  
     Molecular characterization of *katA* from *Campylobacter jejuni* and  
     generation of a catalase-deficient mutant of *Campylobacter coli*

- by intraspecific allelic exchange.  
Microbiology 141, 1369-1376
- Gregory, E., Barnhart, H., Dreesen, D. W., Stern, N. J. und Corn, J. L. (1997)  
Epidemiological study of *Campylobacter* spp. in broilers: source, time of colonization, and prevalence.  
Avian Dis. 41, 890-898
- Griffiths, A. und Ribeiro, C. D. (1988)  
Improved blood free selective medium for isolating *Campylobacter jejuni* from faecal specimens.  
J. Clin. Pathol. 41, 704-705
- Gun-Munro, J., Rennie, R. P., Thornley, J. H., Richardson, H. L., Hodge, D. und Lynch, J. (1987)  
Laboratory and clinical evaluation of isolation media for *Campylobacter jejuni*.  
J. Clin. Microbiol. 25, 2274-2277
- Hänninen, M.-L., (1981)  
The effect of NaCl on *Campylobacter jejuni/coli*.  
Acta Vet. Scand. 22, 578-588
- Hänninen, M.-L., (1982)  
Certain characteristic aspects of *Campylobacter jejuni/coli* with special reference to the survival of the organism in food and to the methods of its recovery.  
Helsinki, College of Veterinary Medicin, Vet.-med. Diss.
- Hänninen, M.-L., Pajarre, S., Klossner, M. L. und Rautelin, H. (1998)  
Typing of human *Campylobacter jejuni* isolates in Finland by pulsed-field gel electrophoresis.  
J. Clin. Microbiol. 36, 1787-1789
- Hänninen, M.-L., Hakkinen, M. und Rautelin, H. (1999)  
Stability of related human and chicken *Campylobacter jejuni* genotypes after passage through chick intestine studied by pulsed-field gel electrophoresis.  
Appl. Environ. Microbiol. 65, 2272-2275
- Hänninen, M.-L., Perko-Mäkelä, P., Pitkälä, A. und Rautelin, H. (2000)  
A three-year study of *Campylobacter jejuni* genotypes in humans

- with domestically acquired infections and in chicken samples from the Helsinki area.
- J. Clin. Microbiol. 38, 1998-2000
- Hänninen, M.-L., Perko-Mäkelä, P., Rautelin, H., Duim, B. und Wagenaar, J. A. (2001)
- Genomic relatedness within five common Finnish *Campylobacter jejuni* pulsed-field gel electrophoresis genotypes studied by amplified fragment length polymorphism analysis, ribotyping, and serotyping.
- Appl. Environ. Microbiol. 67, 1581-1586
- Hafez, H. M., Schroth, S., Stadler, A. und Schulze, D. (2001)
- Detection of *Salmonella*, *Campylobacter*, and verotoxin producing *E. coli* in turkey flocks during rearing and processing.
- Arch. Geflügelk. 65, 130-136
- Hald, B., Wedderkopp, A. und Madsen, M. (2000)
- Thermophilic *Campylobacter* spp. in Danish broiler production: a cross-sectional survey and a retrospective analysis of risk factors for occurrence in broiler flocks.
- Avian Pathol. 29, 123-131
- Harrington, C. S., Thomson-Carter, F. M. und Carter, P. E. (1997)
- Evidence for recombination in the flagellin locus of *Campylobacter jejuni*: implications for the flagellin gene typing scheme.
- J. Clin. Microbiol. 35, 2386-2392
- Harrington, C. S., Thomson-Carter, F. M. und Carter, P. E. (1999)
- Molecular epidemiological investigation of an outbreak of *Campylobacter jejuni* identifies a dominant clonal line within Scottish serotype HS55 populations.
- Epidemiol. Infect. 122, 367-375
- Harris, N. V., Weiss, N. S. und Nolan, C. M. (1986)
- The role of poultry and meats in the etiology of *Campylobacter jejuni/coli* enteritis.
- Am. J. Public Health 76, 407-411

- Hartung, M. (2001)  
Bericht über die epidemiologische Situation der Zoonosen in Deutschland für 2001.  
[www.bfr.bund.de](http://www.bfr.bund.de)
- Harvey, S. M. (1980)  
Hippurate hydrolysis by *Campylobacter fetus*.  
J. Clin. Microbiol. 11, 435-437
- Hazeleger, W. C., Janse, J. D., Koenraad, F. J., Beumer, R. R., Rombouts, F. M. und Abee, T. (1995)  
Temperature-dependent membrane fatty acid and cell physiology changes in coccoid forms of *Campylobacter jejuni*.  
Appl. Environ. Microbiol. 61, 2713-2719
- Hazeleger, W. C., Wouters, J. A., Rombouts, F. M. und Abee, T. (1998)  
Physiological activity of *Campylobacter jejuni* far below the minimal growth temperature.  
Appl. Environ. Microbiol. 164, 3917-3922
- Healing, T. D., Greenwood, M. H. und Pearson, A. D. (1992)  
*Campylobacter* and enteritis.  
Rev. Med. Microbiol. 3, 159-167
- Heath, J. L. und Wabeck, C. J. (1975)  
The effect on xanthophyll content and colour of broiler skin when scald additive concentration was measured by pH.  
J. Poultry Science 54, 21288-1292
- Hebert, G. A., Edmons, P. und Brenner, D. J. (1984)  
DNA relatedness among strains of *Campylobacter jejuni* and *Campylobacter coli* with divergent serogroups and hippurat reaction.  
J. Clin. Microbiol. 20, 138-140
- Heuer, O. E., Pedersen, K., Andersen, J. S. und Madsen, M. (2001)  
Prevalence and antimicrobial susceptibility of thermophilic *Campylobacter* in organic and conventional broiler flocks.  
Lett. Appl. Microbiol. 33, 269-274

- Hiett, K. L., Stern, N. J., Fedorka-Cray, P., Cox, N. A., Musgrove, M. T. und Ladely, S. (2002)  
Molecular subtype analyses of *Campylobacter* spp. from Arkansas and California poultry operations.  
*Appl. Environ. Microbiol.* 68, 6220-6236
- Hodge, J. P. und Krieg, N. R. (1994)  
Oxygen tolerance estimates in *Campylobacter* species depend on the testing medium.  
*J. Appl. Bacteriol.* 77, 666-673
- Hood, A. M., Pearson, A. D. und Shahamat, M. (1988)  
The extent of surface contamination of retailed chickens with *Campylobacter jejuni* serogroups.  
*Epidemiol. Infect.* 100, 17-25
- Hopkins, R. S. und Scott, A. S. (1983)  
Handling raw chicken as a source for sporadic *Campylobacter jejuni* infections (letter).  
*J. Infect. Dis.* 148, 770
- Hopkins, R. S., Olmsted, R. und Istre, G. R. (1984)  
Endemic *Campylobacter jejuni* infection in Colorado: identified risk factors.  
*Am. J. Public Health* 74, 249-250
- Hugdahl, M. B., Beery, J. T. und Doyle, M. P. (1988)  
Chemotactic behavior of *Campylobacter jejuni*.  
*Infect. Immun.* 56, 1560-1566
- Hughes, R. A. C., Hadden, R. D. M., Gregson, N. A. und Smith, K. J. (1999)  
Pathogenesis of Guillain-Barré syndrome.  
*J. Neuroimmunology* 100, 74-97
- Humphrey, T. J., Lanning, D. G. und Leeper, D. (1984)  
The influence of scald water pH on the death rates of *Salmonella typhimurium* and other bacteria attached to chicken skin.  
*J. Appl. Bacteriol.* 57, 355-359
- Humphrey, T. J. und Cruickshank, J. G., (1985)  
Antibiotic and deoxycholate resistance in *Campylobacter jejuni* following freezing or heating.

- J. Appl. Bacteriol. 59, 65-71
- Humphrey, T. J. und Lanning, D. G. (1987)  
*Salmonella* and *Campylobacter* contamination of broiler chicken carcasses and scald tank water: the influence of water pH.  
J. Appl. Bacteriol. 63, 21-25
- Humphrey, T. J. und Hart, R. J. C. (1988)  
*Campylobacter* and *Salmonella* contamination of unpasteurized cow's milk on sale to the public.  
J. Appl. Bacteriol. 65, 463-467
- Humphrey, T. J., Henley, A. und Lanning, D. G. (1993)  
The colonization of broiler chickens with *Campylobacter jejuni*: some epidemiological investigations.  
Epidemiol. Infect. 110, 601-607
- Hunt, J. M. (1992)  
*Campylobacter*.  
In: Food and Drug Administration Bacteriological Analytical Manual.  
AOAC, Arlington, VA, 7<sup>th</sup> edition, 77-94
- Hunt, J. M., Abeyta, C. und Tran, T. (2001)  
*Campylobacter*.  
In: U. S. Food & Drug Administration (Hrsg.):  
Bacteriological Analytical Manual Online,  
[www.cfsan.fda.gov/~ebam/bam-7.html](http://www.cfsan.fda.gov/~ebam/bam-7.html), Kapitel 7
- Huq, A. und Colwell, R. R. (1996)  
A microbiological paradox: viable but nonculturable bacteria with special reference to *Vibrio cholerae*.  
J. Food Protect. 59, 96-101
- Hutchinson, D. N. und Bolton, F. J. (1983)  
Is enrichment culture necessary for the isolation of *Campylobacter jejuni* from faeces?  
J. Clin. Pathol. 36, 1350-1352
- Hutchinson, D. N. und Bolton, F. J. (1984)  
Improved blood-free selective medium for the isolation of *Campylobacter jejuni* from faecal specimens.

- J. Clin. Pathol. 37, 956-957
- Hwang, C.-A. und Beuchat, L. R. (1995)  
 Efficacy of a lactic acid/sodium benzoate wash solution in reducing bacterial contamination of raw chicken.
- Int. J. Food Microbiol. 27, 91-98
- Imai, Y., Kikuchi, M., Matsuda, M., Honda, M., Fukuyama, M., Tsukada, M. und Kaneuchi, C. (1994)  
 Macro-fingerprinting analysis at the chromosomal genomic DNA level of isolates of thermophilic *Campylobacter coli* and *C. jejuni*, by pulsed-field gel electrophoresis.
- Cytobios 78, 115-122
- Istre, G. R., Blaser, M. J., Shillam, P. und Hopkins, R. S. (1984)  
*Campylobacter enteritis* associated with undercooked barbecued chicken.  
 Am. J. Public Health 74, 1265-1267
- Izat, A. L., Gardner, F. A., Denton, J. H. und Golan, F. A. (1988)  
 Incidence and level of *Campylobacter jejuni* in broiler processing.  
 Poultry Science 67, 1568-1572
- Jacobs-Reitsma, W. F (1994)  
 Epidemiology of *Campylobacter* in poultry.  
 Instituut voor Veehouderij en Diergezondheid „Het Spelderholt“,  
 Proefschrift, Spelderholt Uitgave No. 614, 5
- Jacobs-Reitsma, W. F (1997)  
 Aspects of epidemiology of *Campylobacter* in poultry.  
 Vet. Q. 19, 113-117
- Jacobs-Reitsma, W. F (2000)  
*Campylobacter* in the food supply.  
 In: Nachamkin, I. und Blaser, M. J. (Hrsg.):  
*Campylobacter*.  
 Am. Society for Microbiol., Washington, D. C., 2<sup>nd</sup> edition, 467-481
- Jacobs-Reitsma, W. F., Kann, C. A. und Bolder, M. (1994a)  
 The induction of quinolone resistance in *Campylobacter* bacteria in broilers by quinolone treatment.  
 Lett. Appl. Microbiol. 19, 228-231

- Jacobs-Reitsma, W. F., Bolder, N. M. und Mulder, R. W. A. W. (1994b)  
 Caecal carriage of *Campylobacter* and *Salmonella* in Dutch broiler flocks at slaughter: a one-year study.  
*Poultry Science* 73, 1260-1266
- Jacobs-Reitsma, W. F., Maas, M. E. und Jansen, W. H. (1995a)  
 Penner serotyping of *Campylobacter* isolates from poultry, with absorbed pooled antisera.  
*J. Appl. Bacteriol.* 79, 286-291
- Jacobs-Reitsma, W. F., van de Giessen, A. W., Bolder, N. M. und Mulder, R. W. A.W. (1995b)  
 Epidemiology of *Campylobacter* spp. at two Dutch broiler farms.  
*Epidemiol. Infect.* 114, 413-421
- Jacobs-Reitsma, W. F. und Bolder, N. (1998)  
 The role of transport crates in *Campylobacter* contamination of broilers.  
 In: Lastovica, A. J., Newell, D. G. und Lastovica, E. E. (Hrsg.):  
 Proceedings of the 9<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.  
 Capetown, Capetown University, South Africa, 379-380
- Janssen, P., Coopman, R., Huys, G., Swings, J., Bleeker, M., Vos, P., Zabeau, M. und Kersters, K. (1996)  
 Evaluation of the DNA fingerprinting method AFLP as an new tool in bacterial taxonomy.  
*Microbiology* 142, 1881-1889
- Johnson, J., Kaijser, B. und Svedhem, A. (1982)  
 Fatty acid composition: A possible tool for typing different *Campylobacter* spezies.  
 In: Newell, D.G.(Hrsg.): *Campylobacter* Epidemiology, Pathogenesis and Biochemistry.  
 MTP Press Limited, Lancaster, Boston, 106-110
- Jones, F. S., Orcutt, M. und Little, R.B. (1931)  
 Vibrios (*Vibrio jejuni* n. sp.) associated with intestinal disorders of cows and calves.  
*J. Exp. Med.* 53, 853-863

- Jones, F. T., Axtell, R. C., Rives, D. V., Scheideler, S. E., Tarver, F. R., Walker, A. L. und Wineland, M. J. (1991a)  
 A survey of *Campylobacter jejuni* contamination in modern broiler production and processing systems.  
*J. Food Protect.* 54, 259-262
- Jones, D. M., Sutcliffe, E. M. und Curry, A. (1991b)  
 Recovery of viable but non-culturable *Campylobacter jejuni*.  
*J. General Microbiol.* 137, 2477-2482
- Jorgensen, F., Bailey, R., Williams, S., Henderson, P., Wareing, D. R. A., Bolton, F. J., Frost, J. A., Ward, L. und Humphrey, T. J. (2002)  
 Prevalence and numbers of *Salmonella* and *Campylobacter* spp. on raw, whole chickens in relation to sampling methods.  
*Int. J. Food Microbiol.* 76, 151-164
- Juven, B. J., Kanner, J., Weisslowicz, H. und Harel, S. (1988)  
 Effect of ascorbic and isoascorbic acids on survival of *Campylobacter jejuni* in poultry meat.  
*J. Food Protect.* 51, 436-437
- Kaijser, B. und Svedhem, A. (1982)  
 The occurrence of *Campylobacter jejuni* in fresh food and its survival under different conditions.  
 In: Newell, D. G. (Hersg.):  
*Campylobacter: Epidemiology, Pathogenesis and Biochemistry*.  
 MTP Press Limited, Lancaster, Boston, 74
- Kaino, K., Hayashidani, H., Kaneko, K. und Ogawa, M. (1988)  
 Intestinal colonization of *Campylobacter jejuni* in chickens.  
*Jpn. J. Vet. Sci.* 50, 489-494
- Kapperud, G. und Aasen, S. (1992)  
 Descriptive epidemiology of infections due to thermotolerant *Campylobacter* spp. in Norway, 1979-1988.  
*Acta Pathol. Microbiol. Immunol. Scand.* 100, 883-890.
- Kapperud, G., Skjerve, E., Bean, N. H., Ostroff, S. M. und Lassen, J. (1992)  
 Risk factors for sporadic *Campylobacter* infections: results of a case-control study in southeastern Norway.  
*J. Clin. Microbiol.* 30, 3117-3121

- Kapperud, G., Skjerve, E., Vik, L., Hauge, K., Lysager, A., Aalmen, I., Ostroff, S. M. und Potter, M. (1993) Epidemiological investigation of risk factors for *Campylobacter* colonization in Norwegian broiler flocks. *Epidemiol. Infect.* 111, 245-255
- Karmali, M. A., Allen, A. K. und Fleming, P. C. (1981) Differentiation of catalase-positive campylobacters with spezial reference to morphology. *Int. J. Syst. Bacteriol.* 3, 64-71
- Karmali, M. A., De Grandis, S. A., Allen, A. K. und Flemming, P. C. (1982) Identification, nomenclature and taxonomy of catalase-positive campylobacters. In: Newell, D. G. (Hrsg.): *Campylobacter Epidemiology, Pathogenesis and Biochemistry*. MTP Press Limited, Lancaster, Boston, 35-40
- Karmali, M. A., Simor, A. E., Roscoe, M., Fleming, P. C., Smith, S. S. und Lane, J. (1986) Evaluation of a blood-free, charcoal-based, selective medium for the isolation of *Campylobacter* organisms from feces. *J. Clin. Microbiol.* 23, 456-459
- Kazwala, R. R., Collins, J. D., Hannan, J., Crinion, R. A. R. und O'Maluny, H. (1990) Factors responsible for the introduction and spread of *Campylobacter jejuni* infection in commercial poultry production. *Vet. Rec.* 126, 305-306
- Keat, A. und Rowe, I. (1991) Reiter's syndrome and associated arthritides. *Rheum. Dis. Clin. North. Am.* 17, 25-42
- Ketley, J.M. (1997) Pathogenesis of enteric infection by *Campylobacter*. *Mikrobiology* 143, 5-21
- Kiem, P., Kalif, A., Schupp, J., Hill, K., Travis, S. E., Richmond, K., Adair, D. M., Hugh-Jones, M., Kuske, C. R. und Jackson, P. (1997) Molecular evolution and diversity in *Bacillus anthracis* as detected

- by amplified fragment length polymorphism markers.  
*J. Bacteriol.* 179, 818-824
- Kim, J. W., Slavik, M. F., Griffis, C. L. und Walker, J. T. (1993)  
 Attachment of *Salmonella* Thyphimurium to skins of chicken  
 scalded at various temperatures.  
*J. Food Prot.* 56, 661-665
- Kinde, H., Genigeorgis, C. A. und Pappaioanou, M. (1983)  
 Prevalence of *Campylobacter jejuni* in chicken wings.  
*Appl. Environ. Microbiol.* 45, 1116-1118
- King, E.O. (1957)  
 Human infections with *Vibrio fetus* and a closely related vibrio.  
*J. Infect. Dis.* 101, 119-128
- Kist, M. (1991)  
 Isolierung und Identifizierung von Bakterien der Gattungen  
*Campylobacter* und *Helicobacter*.  
*Zbl. Bakt.* 276, 124-139
- Kist, M. (2002)  
 Lebensmittelbedingte Infektionen durch *Campylobacter*.  
*Bundesgesundheitsbl. - Gesundheitsforsch. - Gesundheitsschutz*  
45, 497-506
- Konkel, M. E., Garvis, S. G., Tipton, S. L., Anderson und D. E., Cieplak, W.  
 (1997)  
 Identification and molecular cloning of a gene encoding a  
 fibronectin-binding protein (CadF) from *Campylobacter jejuni*.  
*Mol. Microbiol.* 24, 953-963
- Konkel, M. E., Kim, B. J., Klena, J. D., Young, C. R. und Ziprin, R. (1998)  
 Characterization of the thermal stress response of *Campylobacter jejuni*.  
*Infect. Immun.* 66, 3666-3672
- Konkel, M. E., Kim, B. J., Rivera-Amill, V. und Garvis, S. G. (1999)  
 Bacterial secreted proteins are required for the internalization of  
*Campylobacter jejuni* into cultured mammalian cells.  
*Mol. Microbiol.* 32, 691-701

- Korolik, V., Alderton, M. R., Smith, S. C., Chang, N. und Coloe, P. (1998)  
 Isolation and molecular analysis of colonising and non-colonising strains of *Campylobacter jejuni* and *Campylobacter coli* following experimental infection of young chickens.  
*Vet. Microbiol.* 60, 239-249
- Kramer, J. M., Frost, J. A., Bolton, F. J. und Wareing, D. R. A. (2000)  
*Campylobacter* contamination of raw meat and poultry at retail sale: identification of multiple types and comparison with isolates from human infection.  
*J. Food Protect.* 63, 1654-1659
- Kutscher (1895)  
 Die während des Herbstes 1894 in den Gewässern Gießens gefundenen Vibrionen.
- Zit, nach Görgen, M. (1982)  
*Zbl. Hyg.* 19, 461-483
- Kwiatek, K., Wojton, B. und Stern, N. J. (1990)  
 Prevalence and distribution of *Campylobacter* spp. on poultry and selected red meat carcasses in Poland.  
*J. Food Protect.* 53, 127-130
- Lam, K. M., Yamamoto, R. und DaMassa, A. J. (1995)  
 DNA diversity among isolates of *Campylobacter jejuni* detected by PCR-based RAPD fingerprinting.  
*Vet. Microbiol.* 45, 269-274
- Lambert, J. D. und Maxey, R. B. (1984)  
 Effect of gamma radiation on *Campylobacter jejuni*.  
*J. Food Sci.* 49, 665, 674
- Lauwers, S., De Boeck, M. und Butzler, J. P. (1978)  
*Campylobacter enteritis* in Brussels.  
*Lancet i*, 604-605
- Lee, A., O'Rourke, J. L., Barrington, P. J. und Trust, T. J. (1986)  
 Mucus colonization as a determinant of pathogenicity in intestinal infection by *Campylobacter jejuni*: A mouse cecal model.  
*Infect. Immun.* 51, 536-546

- Lee, A., Smith, S. C. und Coloe, P. J. (1998)  
Survival and growth of *Campylobacter jejuni* after artificial inoculation onto chicken skin as a function of temperature and packaging conditions.  
*J. Food Protect.* 61, 1609-1614
- Levy, A. J. (1946)  
A gastroenteritis outbreak probably due to a bovine strain of vibrio.  
*Yale J. Biol. Med.* 18, 243-258
- Li, Y., Walker, J. T., Slavik, M. F. und Wang, H. (1995)  
Electrical treatment of poultry chiller water to destroy *Campylobacter jejuni*.  
*J. Food Protect.* 58, 1330-1334
- Lindblom, G. B., Sjögren, E. und Kaijser, B. (1986)  
Natural *Campylobacter* colonization in chickens raised under different environmental conditions.  
*J. Hyg. (Cambridge)* 96, 385-391
- Lindblom, G. B., Kaijser, B. und Sjögren, E. (1989)  
Enterotoxin production and serogroups of *Campylobacter jejuni* and *Campylobacter coli* from patients with diarrhoea and from healthy laying hens.  
*J. Clin. Microbiol.* 27, 1272-1276
- Lindstedt, B.-A., Heir, E., Vardund, T., Melby, K. K. und Kapperud, G. (2000)  
Comparative fingerprinting analysis of *Campylobacter jejuni* subsp. *jejuni* strains by amplified-fragment length polymorphism genotyping.  
*J. Clin. Microbiol.* 38, 3379-3387
- Lior, H., Woodward, D. L., Edgar, J. A., Laroche, L. J. und Gill, P. (1982)  
Serotyping of *Campylobacter jejuni* by slide agglutination based on heat-labile antigenic factors.  
*J. Clin. Microbiol.* 15, 761-768
- Lovett, J., Francis, D. W. und Hunt, J. M. (1983)  
Isolation of *Campylobacter jejuni* from raw milk.  
*Appl. Environ. Microbiol.* 46, 459-462

- Luechtfeld, N. W., Wang, W.-L. L., Blaser, M. J. und Reller, L B. (1981)  
Evaluation of transport and storage techniques for isolation of  
*Campylobacter fetus* subsp. *jejuni* from turkey cecal specimens.  
J. Clin. Microbiol. 13, 438-443
- Madden, R. H., Moran, L. und Scates, P. (1998)  
Frequency of occurrence of *Campylobacter* spp. in red meats and  
poultry in Northern Ireland and their subsequent subtyping using  
polymerase chain reaction-restriction fragment length  
polymorphism and the random amplified polymorphic DNA  
method.  
J. Appl. Microbiol. 84, 703-708
- Mandal, B. K., De Mol, P. und Butzler, J. P. (1984)  
Clinical aspects of *Campylobacter* infections in humans.  
In: Butzler, J. P. (Hrsg.): *Campylobacter* Infection in man and  
animals.  
CRC Press, Inc., Boca Raton, Florida, 21-31
- Manning, G., Duim, B., Wassenaar, T., Wagenaar, J. A., Ridley, A. und Newell,  
D. G. (2001)  
Evidence for a genetically stable strain of *Campylobacter jejuni*.  
Appl. Environ. Microbiol. 67, 1185-1189
- Manzano, M., Pipan, C., Botta, G. und Comi, G. (1995)  
Comparison of three culture media for recovering *Campylobacter*  
*jejuni* and *Campylobacter coli* from poultry skin, liver and meat.  
Sciences Des Aliments 15, 615-623
- Matsuda, M., Tsukada, M., Fukuyama, M., Kato, Y., Ishida, Y., Honda, M. und  
Kaneuchi, C. (1995)  
Detection of genomic variability among isolates of *Campylobacter*  
*jejuni* from chickens by crossed-field gel electrophoresis.  
Cytobios 82, 73-79
- Mazurier, S., van der Giessen, A., Heuvelman, K. und Wernars, K. (1992)  
RAPD analysis of *Campylobacter* isolates: DNA fingerprinting  
without the need to purify DNA.  
Lett. Appl. Microbiol. 14, 260-262

- McCardell, B. A., Madden, J. M. und Lee, E. C. (1984)  
*Campylobacter jejuni* and *Campylobacter coli* production of a cytotoxic toxin immunologically similar to cholera toxin.  
J. Food Protect. 47, 943-949
- McDermott, P. F., Bodeis, S. M., English, L. L., White, D. G., Walker, R. D., Zhao, S., Simjee, S. und Wagner, D. D. (2002)  
Ciprofloxacin resistance in *Campylobacter jejuni* evolves rapidly in chickens treated with fluoroquinolones.  
J. Infect. Dis. 285, 837-840
- McFadyean, J. und Stockman, S. (1913)  
Report of the Departmental Committee appointed by the Board of Agriculture and Fisheries to enquire into epizootic abortion.  
His Majesty's Stationery Office (HMSO), London  
Part III Abortion in sheep, 1-64
- McKay, D., Fletcher, J., Cooper, P. und Thomson-Carter, F. M. (2001)  
Comparison of two methods for serotyping *Campylobacter* spp.  
J. Clin. Microbiol. 39, 1917-1921
- McNamara, A. M. (1994)  
The microbiology division's perspective on *Listeria monocytogenes*, *Escherichia coli* 0157:H7 and *Campylobacter jejuni/coli*.  
Dairy Food Environ. Sanit. 14, 250-261
- McSweeney, E. und Walker, R. I. (1986)  
Identification and characterisation of two *Campylobacter jejuni* adhesins for cellular and mucous substrates.  
Infect. Immun. 53, 141-148
- Mead, G. C. und Hinton, M. H. (1989)  
Behaviour of campylobacters in production, processing and storage of poultry.  
In: Proceedings Hohenheimer Geflügelsymposium, 48-57
- Mead, G. C., Hudson, W. R. und Hinton, M. H. (1995)  
Effect of changes in processing to improve hygiene control on contamination of poultry carcasses with campylobacter.  
Epidemiol. Infect. 115, 495-500

- Mead, P. S., Slutsker, L., Dietz, V., McCaig, L. F., Bresee, J. S., Shapiro, C., Griffin, P. M. und Tauxe, R. V. (1999)  
Food-related illness and death in the United States.  
Emerg. Infect. Dis. 5, 607-625
- Medema, G. J., Schets, F. M., van de Giessen, A. W. und Havelaar, A. H. (1992)  
Lack of colonization of 1 day old chicks by viable, non-culturable *Campylobacter jejuni*.  
J. Appl. Bacteriol. 72, 512-516
- Meinersmann, R. J., Helsel, L. O., Fields, P. I. und Hiett, K. L. (1997)  
Discrimination of *Campylobacter jejuni* isolates by fla gene sequencing.  
J. Clin. Microbiol. 35, 2810-2814
- Merrell, B. R., Walker, R. I. und Coolbaugh, J. C. (1981)  
*Campylobacter fetus*, spp. *jejuni*, a newly recognised enteric pathogen: morphology, and intestinal colonization.  
Scanning Electron Microsc. 41, 125-131
- Michaud, S., Menard, S., Gaudreau, C. und Arbeit, R. D. (2001)  
Comparison of *Sma*I-defined genotypes of *Campylobacter jejuni* examined by *Kpn*I: a population-based study.  
J. Med. Microbiol. 50, 1075-1081
- Miflin, J. K., Blackall, P. J. und More, S. J. (1999)  
Preliminary epidemiological studies on *Campylobacter* spp. in meat chickens in Queensland, Australia.  
10<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.  
Baltimore, USA, 48
- Miwa, N., Takegahara, Y., Terai, K., Kato, H. und Takeuchi, T. (2002)  
*Campylobacter jejuni* contamination on broiler carcasses of *C. jejuni*-negative flocks during processing in a Japanese slaughterhouse.  
Int. J. Food Microbiol. 2617, 1-5
- Moran, A. P. und Upton, M. E. (1987)  
Factors affecting production of coccoid forms by *Campylobacter*

- jejuni* on solid media during incubation.  
J. Appl. Bacteriol. 62, 527-537
- Morris, G. K. und Patton, C. M. (1985)  
*Campylobacter*.  
In: Manual of Clinical Microbiology, Chapter 27  
Am. Society for Microbiol., Washington, D.C., 4<sup>th</sup> edition, 302-308
- Mulder, R. W. A. W. (1995)  
Impact of transport and related stresses in the incidence and extent of human pathogens in pigmeat and poultry.  
J. Food Safety 15, 239-246
- Müller, H.E. (1980)  
*Campylobacter fetus*-Infektion-eine Übersicht.  
Hyg. Med. 5, 26, 30
- Müller, A. E. und Müller, H. E. (1997)  
Comparative investigation of selective media for *Campylobacter*.  
Clin. Lab. 43, 263-268
- Myszewski, M. A. und Stern, N. J. (1990)  
Influence of *Campylobacter jejuni* cecal colonization on immunoglobulin response in chickens.  
Avian Dis. 34, 588-594
- Nachamkin, I., (1997)  
*Campylobacter jejuni*.  
In: Doyle, M. P., Beuchat, L. R. und Montville, T. J. (Hrsg.): Food microbiology: fundamentals and frontiers.  
Am. Society for Microbiol., Washington, D. C., 159-170
- Nachamkin, I., (1999)  
*Campylobacter and Arcobacter*  
In: Murray, P. R., Baron, E. J., Pfaffer, M. A., Tenover, F. C. und Yolken, R. H. (Hrsg.): Manual of Clinical Microbiology.  
Am. Society for Microbiol., Washington, D.C., 7<sup>th</sup> edition, 716-726
- Nachamkin, I., Yang, X. H., Stern, N. J. (1993)  
Role of *Campylobacter jejuni* flagella as colonization factors for three-day-old chicks; analysis with flagellar mutants.

- Appl. Environ. Microbiol. 59, 1269-1273
- Nachamkin, I., Engberg, J. und Aarestrup, F. M. (2000)  
Diagnosis and antimicrobial susceptibility of *Campylobacter* species.  
In: Nachamkin, I. und Blaser, M. J. (Hrsg.):  
*Campylobacter*.  
Am. Society for Microbiol., Washington, D. C., 2<sup>nd</sup> edition, 45-66
- Nadeau, È., Messier, S. und Quessy, S. (2002)  
Prevalence and comparison of genetic profiles of *Campylobacter* strains isolated from poultry and sporadic cases of campylobacteriosis in humans.  
J. Food Protect. 65, 73-78
- Neimann, J. (2001)  
The epidemiology of sporadic campylobacteriosis in Denmark investigated by a case control study and strain characterization of patient isolates.  
Ph. D. Thesis. Danish Zoonosis. Danish Veterinary Laboratory.  
Vester Kopi, Valby
- Newell, D. G., McBride, H. und Dolby, J. M. (1985)  
Investigations on the role of flagella in the colonization of infant mice with *Campylobacter jejuni* and attachment of *Campylobacter jejuni* to human epithelial cell lines.  
J. Hyg. 95, 217-227
- Newell, D. G., Hartnett, E., Madsen, M., Engberg, J., Hald, T., Wedderkopp, A. und Engvall, A. (1999)  
The comparison of seasonality in *Campylobacter* infection in humans and chickens from three European countries.  
10<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.  
Baltimore, USA, 41
- Newell, D. G., Frost, J. A., Duim, B., Wagenaar, J. A., Madden, R. H., Van der Plas, J. und On, S. L. W. (2000)  
New developments in the subtyping of *Campylobacter* species.  
In: Nachamkin, I. und Blaser, M. J. (Hrsg.):

- Campylobacter.*  
Am. Society for Microbiol., Washington, D. C., 2<sup>nd</sup> edition, 27-44
- Newell, D. G., Shreeve, J. E., Toszeghy, M., Domingue, G., Bull, S., Humphrey, T. und Mead, G (2001)  
Changes in the carriage of *Campylobacter* strains by poultry carcasses during processing in abattoirs.  
Appl. Environ. Microbiol. 67, 2636-2640
- Nielsen, E. M., Engberg, J. und Madsen, M. (1997)  
Distribution of serotypes of *Campylobacter jejuni* and *C. coli* from Danish patients, poultry, cattle and swine.  
FEMS Immunol. Med. Microbiol. 19, 47-56
- Nielsen, E. M., Engberg, J., Fussing, V., Petersen, L., Brogren, C. H. und On, S. L. W. (2000)  
Evaluation of phenotypic and genotypic methods for subtyping *Campylobacter jejuni* isolates from humans, poultry, and cattle.  
J. Clin. Microbiol. 38, 3800-3810
- Norkrans, G. und Svedhem, A (1982)  
Epidemiological aspects of *Campylobacter jejuni* enteritis.  
J. Hyg. (Cambridge) 89, 163-170
- Nuijten, P. J. M., van Asten, F. J. A. M., Gaastra, W. und van der Zeijst, B. A. M. (1990)  
Structural and functional analysis of two *Campylobacter jejuni* flagellin genes.  
J. Biol. Chemistry 265, 17798-17804
- Obiri-Danso, K., Paul, N. und Jones, K. (2001)  
The effects of UVB and temperature on the survival of natural populations and pure cultures of *Campylobacter jejuni*, *Campylobacter coli*, *Campylobacter lari* and urease-positive thermophilic *Campylobacters* (UPTC) in surface waters.  
J. Appl. Microbiol. 90, 256-267

- Okrend, A. J., Johnston, R. W. und Moran, A. B. (1986)  
Effect of acetic acid on the death rates of 52°C of *Salmonella newport*, *Salmonella typhimurium* and *Campylobacter jejuni* in poultry scald water.  
J. Food Protect. 49, 500-503
- On, S. L. W. (1998)  
In vitro genotypic variation of *Campylobacter coli* documented by pulsed-field gel electrophoretic DNA profiling: implications for epidemiological studies.  
FEMS Microbiol. Lett. 165, 341-346
- On, S. L. W., Nielsen, E. M., Engberg, J. und Madsen, M. (1998)  
Validity of *Sma*I-defined genotypes of *Campylobacter jejuni* examined by *Sall*, *Kpn*I, and *Bam*H I polymorphisms: evidence of identical clones infecting humans, poultry, and cattle.  
Epidemiol. Infect. 120, 231-237
- Ono, K. und Yamamoto, K. (1999)  
Contamination of meat with *Campylobacter jejuni* in Saitama, Japan.  
Int. J. Food Microbiol. 47, 211-219
- Oosterom, J., Notermans, S., Karman, H. und Engels, G. B. (1983a)  
Origin and prevalence of *Campylobacter jejuni* in poultry processing.  
J. Food Protect. 46, 339-344
- Oosterom, J., De Wilde, G. J. A., De Boer, E., De Blaauw, L. H. und Karman, H. (1983b)  
Survival of *Campylobacter jejuni* during poultry processing and pig Slaughtering.  
J. Food Protect. 46, 702-706
- Oosterom, J., den Uyl, C. H., Bänffer, J. R. J. und Huisman, J. (1984)  
Epidemiologic investigations on *Campylobacter jejuni* in households with primary infection.  
J. Hyg. (Cambridge) 92, 325-323
- Oosterom, J. (1985)  
Studies on the epidemiology of *Campylobacter jejuni*.

- Drukkerij Elinkwijk B.V., Med. Diss. Univ. Utrecht
- Osano, O. und Arimi, S. M. (1999)  
Retail poultry and beef as sources of *Campylobacter jejuni*.  
East Afr. Med. J. 76, 141-143
- Owen, R.J., Sutherland, K., Fitzgerald, C., Gibson, J., Borman, P. und Stanley, J. (1995)  
Molecular subtyping scheme for serotypes HS1 and HS4 of *Campylobacter jejuni*.  
J. Clin. Microbiol. 33, 872-877
- Oyarzabal, O. A., Conner, D. E. und Hoerr, F. J. (1995)  
Incidence of campylobacters in the intestine of avian species in Alabama.  
Avian Dis. 39, 147-151
- Pacha, R. E., Clark, G. W., Williams, E. A., Carter, A. M., Scheffelmaier, J. J. und Debusschere, P. (1987)  
Small rodents and other mammals associated with mountain meadows as reservoirs of *Giardia* spp. and *Campylobacter* spp.  
Appl. Environ. Microbiol. 53, 1574-1579
- Park, S. F. (2002)  
The physiology of *Campylobacter* species and its relevance to their role as foodborne pathogens.  
Int. J. Food Microbiol. 74, 177-188
- Park, C. E. und Sanders, G. W. (1991)  
A sensitive enrichment procedure for the isolation of *Campylobacter jejuni* from frozen foods.  
In: Ruiz-Palacios, G. M., Calva, F. und Ruiz-Palacios, B. R. (Hrsg.):  
*Campylobacter V*, Proceeding 5<sup>th</sup> International Workshop on *Campylobacter* Infections.  
National Institute of Nutrition, Puerto Vallarta, Mexico, 102
- Park, C. E., Stankiewicz, Z. K., Lovett, J. und Hunt, J. (1981)  
Incidence of *Campylobacter jejuni* in fresh eviscerated whole market chickens.  
Can. J. Microbiol. 27, 841-842

- 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., Whitehead, S. und Barrell, B. G. (2000)  
 The genome sequence of the food-borne pathogen  
*Campylobacter jejuni* reveals hypervariable sequences.  
 Nature 403, 665-668
- Patterson, M. F. (1995)  
 Sensitivity of *Campylobacter* spp. to irradiation in poultry meat.  
 Lett. Appl. Microbiol. 20, 338-340
- Patton, C. M. und Wachsmuth, I. K. (1992)  
 Typing schemes: are current methods useful?  
 In: Nachamkin, I., Blaser, M. J. und Tompkins, L. S. (Hrsg.):  
*Campylobacter jejuni*: current status and future trends.  
 Am. Society for Microbiol., Washington, D. C. 110-128
- Peabody, R. G., Ryan, M. J. und Wall, P. G. (1997)  
 Outbreaks of *Campylobacter* infection: rare events for a common pathogen.  
 Comm. Dis. Rep. 7, R33-R37
- Pead, P. J. (1979)  
 Electron microscopy of *Campylobacter jejuni*.  
 J. Med. Microbiol. 12, 383-385
- Pearson, A. D., Colwell, R. R., Rollins, D. M., Hanninen, M. L., Jones, M. W., Healing, T. D., Greenwood, M., Hood, M., Shahamat, M., Jump, E. und Jones, D. M. (1987)  
 Transmission of *Campylobacter* on a poultry farm.  
 In: Kaijser, B. und Falsen, E. (Hrsg.): Proceedings of the International Conference on *Campylobacter*. Göteborg, Sweden
- Pearson, A. D. und Healing, T. D. (1992)  
 The surveillance and control of *Campylobacter* infection.  
 Commun. Dis. Rep. Rev. 2, 133-139

- Pearson, A. D., Greenwood, M., Healing, T. D., Rollins, D., Shahamat, M.,  
Donaldson, J. und Colwell, R. R. (1993)  
Colonization of broiler chickens by waterborne *Campylobacter jejuni*.  
*Appl. Environ. Microbiol.* 59, 987-996
- Pearson, A. D., Greenwood, M. H., Feltham, R. K. A., Healing, T. D.,  
Donaldson, J., Jones, D. M. und Colwell, R. R. (1996)  
Microbial ecology of *Campylobacter jejuni* in a United Kingdom  
chicken supply chain: intermittent common source, vertical  
transmission, and amplification by flock propagation.  
*Appl. Environ. Microbiol.* 62, 4614-4620
- Pei, Z., Burucoa, C., Grignon, B., Baqar, S., Huang, X.-Z., Kopecko, D. J.,  
Bourgeois, A. L., Fauchere, J.-L. und Blaser, M. J. (1998)  
Mutation in the peb 1A locus of *Campylobacter jejuni* reduces  
interactions with epithelial cells and intestinal colonization of mice.  
*Infect. Immun.* 66, 938-943
- Penner, J. L. (1991)  
*Campylobacter, Helicobacter* and related spiral bacteria.  
In: Balows, A., Hausler, J. W. J., Herrmann, K. L., Isenberg, H. D.,  
Shadomy, J. H. (Hrsg):  
Manual of clinical microbiology.  
Am. Society for Microbiol., Washington, D. C., 402-409
- Penner, J. L. und Hennessy, J. N. (1980)  
Passive hemagglutination technique for serotyping *Campylobacter fetus* subsp. *jejuni* on the basis of soluble heat-stable antigens.  
*J. Clin. Microbiol.* 12, 732-737
- Pesci, E. C., Cottle, D. L. und Picket, C. L. (1994)  
Genetic, enzymatic, and pathogenic studies of the iron superoxide  
dismutase of *Campylobacter jejuni*.  
*Infect. Immun.* 62, 2687-2695
- Petersen, L. und Wedderkopp, A. (2001)  
Evidence that certain clones of *Campylobacter jejuni* persist during  
successive broiler flock rotations.  
*Appl. Environ. Microbiol.* 67, 2739-2745

- Petersen, L., Nielsen, E. M. und On, S. L. (2001)  
Serotype and genotype diversity and hatchery transmission of  
*Campylobacter jejuni* in commercial poultry flocks.  
Vet. Microbiol. 82, 141-154
- Peterson, M. C. (1994)  
Rheumatic manifestations of *Campylobacter jejuni* and *C. fetus*  
infections in adults.  
Scand. J. Rheumatol. 23, 167-170
- Pickett, C. L., Auffenberg, T., Pesci, E. C., Sheen, V. L. und Jusuf, S. S. (1992)  
Iron acquisition and hemolysin production by *Campylobacter  
jejuni*.  
Infect. Immun. 60, 3872-3877
- Pickett, C. L., Pesci, E. C., Cottle, D. L., Russell, G., Erdem, A. M. und Zeytin,  
H. (1996)  
Prevalence of cytolethal distending toxin production in  
*Campylobacter jejuni* and relatedness of *Campylobacter* sp. cdtB  
gene.  
Infect. Immun. 64, 2070-2078
- Piddock, L. V. J. (1995)  
Quinolone resistance and *Campylobacter* spp.  
J. Antimicrob. Chemother. 36, 891-898
- Prescott, J. F. und Gellner, O. S. (1984)  
Intestinal carriage of *Campylobacter jejuni* and *Salmonella* by  
chicken flocks at slaughter.  
Can. J. Comp. Med. 48, 329-313
- Preston, M. A. und Penner, J. L. (1989)  
Characterization of cross-reacting serotypes of *Campylobacter  
jejuni*.  
Can. J. Microbiol. 35, 265-273
- Purdy, D. und Park, S. F. (1994)  
Cloning, nucleotide sequence and characterisation of a gene  
encoding superoxide dismutase from *Campylobacter jejuni* and  
*Campylobacter coli*.  
Microbiology 140, 1203-1208

- Purdy, D., Cawthraw, S., Dickinson, J. H., Newell, D. G. und Park, S. F. (1999)  
Generation of a superoxide dismutase (SOD)-deficient mutant of  
*Campylobacter coli*: evidence for the significance of SOD in  
*Campylobacter* survival and colonization.  
Appl. Environ. Microbiol. 65, 2540-2546
- Rautelin, H. und Hänninen, M. L. (1999)  
Comparison of a commercial test for serotyping heat-stable  
antigens of *Campylobacter jejuni* with genotyping by pulsed-field  
gel electrophoresis.  
J. Med. Microbiol. 48, 617-621
- Rautelin, H., Jusufovic, J. und Hänninen, M. L. (1999)  
Identification of hippurate-negative thermophilic *Campylobacters*.  
Diagn. Microbiol. Infect. Dis. 35, 9-12
- Razi, M. H. H. und Park, R. W. A. (1982)  
Some simple tests for differentiating between campylobacters.  
In: Newell, D.G.(Hrsg.):*Campylobacter Epidemiology, Pathogenesis and Biochemistry*.  
MTP Press Limited, Lancaster, Boston, 59
- Rees, J. H., Soudain, S. E., Gregson, N. A. und Hughes, R. A. C. (1995)  
*Campylobacter jejuni* infection and Guillain-Barré syndrome.  
New England J. Med. 333, 1374-1379
- Refrégier-Petton, J., Rose, N., Denis, M. und Salvat, G. (2001)  
Risk factors for *Campylobacter* spp. contamination in French  
broiler-chicken flocks at the end of the rearing period.  
Preventive Vet. Med. 50, 89-100
- Ritchie, A. E., Keeler, R. F. und Bryner, J. H. (1966)  
Anatomical features of Vibrio fetus: Electron microscopic survey.  
J. Gen. Microbiol. 43, 427-438
- Rivoal, K., Denis, M., Salvat, G., Colin, P. und Ermel, G. (1999)  
Molecular characterization of the diversity of *Campylobacter* spp.  
isolates collected from a poultry slaughterhouse: analysis of cross-  
contamination.  
Lett. Appl. Microbiol. 29, 370-374

Robert-Koch-Institut-RKI (2001)

[www.rki.de/INFEKT/RATGEBER/RAT.HTM](http://www.rki.de/INFEKT/RATGEBER/RAT.HTM); 2001

Robert-Koch-Institut-RKI (2004)

Bakterielle Gastroenteritiden: Situationsbericht 2003.

Epidemiologisches Bulletin Nr. 31, 251-254

Robinson, D. A. (1981)

Infective dose of *Campylobacter jejuni* in milk.

Brit. Med. J. 282, 6276, 1584

Rollins, D.M. und Colwell, R.R. (1986)

Viable but non culturable stage of *Campylobacter jejuni* and its role in survival in the natural aquatic environment.

Appl. Environ. Microbiol. 52, 531-538

Rosenfield, J. A., Arnold, G. J., Davey, G. R., Archer, R. S. und Woods, W. H. (1985)

Serotyping of *Campylobacter jejuni* from an outbreak of enteritis implicating chicken.

J. Infection 11, 159-165

Rosenquist, H. und Nielsen, N. L. (1999)

Surveillance program on thermophilic *Campylobacter* spp.

(*C. jejuni*, *C. coli* and *C. lari*) in raw meat products from Danish retail outlets.

10<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.

Baltimore, USA, 70

Ruiz-Palacios, G. M., Torres, J., Torres, N. I., Escamilla, E., Ruiz-Palacios, B. R. und Tamayo, J. (1983)

Cholera-like enterotoxin produced by *Campylobacter jejuni*.

Characterization and clinical significance.

Lancet (i), 250-253

Saaed, A. M., Harris, N. V. und DiGiacomo, R. F. (1993)

The role of exposure to animals in the etiology of *Campylobacter jejuni/coli* enteritis.

Am. J. Epidemiol. 137, 108-114

- Sáenz, Y., Zarazaga, M., Lantero, M., Gastanares, M. J., Baquero, F. und Torres, C. (2000)  
Antibiotic resistance in *Campylobacter* strains isolated from animals, foods, and humans in Spain in 1997-1998.  
*Antimicrob. Agents Chemother.* 44, 267-271
- Sagara, H., Mochizuke, A., Okamura, N. und Nakaya, R. (1987)  
Antimicrobial resistance of *Campylobacter jejuni* and *Campylobacter coli* with special reference to plasmid profiles of Japanese clinical isolates.  
*Antimicrob. Agents Chemother.* 31, 713-719
- Saha, S. K., Saha, S. und Sanyal, S. C. (1991)  
Recovery of injured *Campylobacter jejuni* cells after animal passage.  
*Appl. Environ. Microbiol.* 57, 3388-3389
- Salama, S. M., Bolton, F. J. und Hutchinson, D. N. (1990)  
Application of a new phagotyping scheme to *Campylobacters* isolated during outbreaks.  
*Epidemiol. Infect.* 104, 405-411
- Sanchez, M. X., Fluckey, W. M., Brashears, M. M. und McKee, S. R. (2002)  
Microbial profile and antibiotic susceptibility of *Campylobacter* spp. and *Salmonella* spp. in broilers processed in air-chilled and immersion-chilled environments.  
*J. Food Protect.* 65, 948-956
- Schulze, F., Bartelt, E. und Müller, W. (2000)  
*Campylobacter.*  
*BgVV-Heft 02/2000*, 13-28
- Schwartz, D. C. und Cantor, C. R. (1984)  
Separation of yeast chromosome-sized DNAs by pulsed field gradient gel electrophoresis.  
*Cell* 37, 67-75
- Sebald, M. und Véron, M. (1963)  
Teneur en bases de l'ADN et classification des vibrions.  
*Ann. Inst. Pasteur* 105, 897-910

- Segreti, J., Gootz, T. D., Goodman, L. J., Parkhurst, G. W., Quinn, J. P., Martin, B. A. und Trenholme, G. M. (1992)  
High-level quinolone resistance in clinical isolates of *Campylobacter jejuni*.  
*J. Infect. Dis.* 165, 667-670
- Shane, S. M. (1992)  
The significance of *Campylobacter jejuni* infection in poultry: a review.  
*Avian Pathol.* 21, 189-213
- Shane, S. M. (2000)  
*Campylobacter* infection of commercial poultry.  
*Rev. Sci. Tech. Off. Int. Epiz.* 19, 376-395
- Shane, S. M., Gifford, D. H. und Yogasundram, K. (1986)  
*Campylobacter jejuni* contamination of eggs.  
*Vet. Res. Commun.* 10, 487-492
- Shanker, S., Lee, A. und Sorrell, T. C. (1986)  
*Campylobacter jejuni* in broilers: the role of vertical transmission.  
*J. Hyg.* 96, 153-159
- Shanker, S., Lee, A. und Sorrell, T. C. (1990)  
Horizontal transmission of *Campylobacter jejuni* amongst broiler chicks: experimental studies.  
*Epidemiol. Infect.* 104, 101-110
- Shreeve, J. E., Toszeghy, M., Ridley, A. und Newell, D. G. (2002)  
The carry-over of *Campylobacter* isolates between sequential poultry flocks.  
*Avian Dis.* 46, 378-385
- Sielaff, H. (1996)  
Fleischtechnologie.  
Behr's Verlag, Hamburg
- Simango, C. und Rukure, G. (1992)  
Survival of bacterial enteric pathogens in traditional fermented foods.  
*J. Appl. Bacteriol.* 73, 37-40

- Simmons, N. A. und Gibbs, F. J. (1979)  
*Campylobacter* spp. in overready poultry.  
J. Infect. 1, 159-162
- Skerman, V. B. D., Mc Gowan, V. und Sneath, P. H. A. (Hrsg.) (1980)  
Approved Lists of Bacterial Names.  
Int. J. Syst. Bacteriol. 30, 225-420
- Skirrow, M. B. (1977)  
*Campylobacter enteritis*: A "new" disease.  
Br. Med. J. 2, 9-11
- Skirrow, M. B. (1987)  
A demographic survey of *Campylobacter*, *Salmonella* and *Shigella* infections in England. A public health laboratory service survey.  
Epidemiol. Infect. 99, 647-657
- Skirrow, M. B. und Benjamin, J. (1980a)  
Differentiation of enteropathogenic *Campylobacter*.  
J. Clin. Pathol. 33, 1122
- Skirrow, M. B. und Benjamin, J. (1980b)  
"1001" Campylobacters: Cultural characteristics of intestinal campylobacters from man and animals.  
J. Hyg. (Cambridge) 85, 427-442
- Skirrow, M. B. und Blaser, M. J. (1992)  
Clinical and epidemiological considerations.  
In: Nachamkin, I., Blaser, M. J. und Tompkins, L. S. (Hrsg.):  
*Campylobacter jejuni*, Current status and future trends.  
ASM, Washington DC, 3-8
- Skirrow, M. B. und Blaser, M. J. (1995)  
*Campylobacter jejuni*.  
In: Blaser, M. J., Smith, P. D., Ravdin, J. I., Greenberg, H. B., Guerrant, R. L. (Hrsg.): Infections of the gastrointestinal tract.  
Raven Press, New York, 825-848
- Slader, J., Domingue, G., Jorgensen, F., McAlpine, K., Owen, R. J., Bolton, F. J. und Humphrey, T. J. (2002)  
Impact of transport crate reuse and of catching and processing on *Campylobacter* and *Salmonella* contamination of broiler

- chickens.
- Appl. Environ. Microbiol. 68, 713-719
- Slavik, M. F., Kim, J.-W. und Walker, J. T. (1995)  
Reduction of *Salmonella* and *Campylobacter* on chicken  
carcasses by changing scalding temperature.  
J. Food Protect. 58, 689-691
- Smibert, R. M. (1974)  
*Campylobacter*.  
In: Buchanan, R. E. und Gibbons, N. E. (Hrsg.):  
Berger's Manual of Determinative Bacteriology.  
Williams und Wilkins, Baltimore, USA, 8<sup>th</sup> edition, 207-212
- Smibert, R. M. (1978)  
The genus *Campylobacter*.  
Ann. Rev. Microbiol. 32, 673-709
- Smibert, R. M. (1981)  
The Genus *Campylobacter*.  
In: Starr, M. P., Stolp, H., Trüper, H. G., Balows, A. und Schlegel,  
H. G. (Hrsg.): The Prokaryotes: A Handbook on Habitats, Isolation  
and Identification of Bacteria.  
Springer-Verlag, Berlin-Heidelberg-New York, 609-617
- Smibert, R. M. (1984)  
Genus *Campylobacter* Sebald and Veron 1963.  
In: Krieg, N. R. und Holt, J. G. (Hrsg.):  
Berger's Manual of Systematic Bacteriology, Vol. 1  
Williams & Wilkens, Baltimore, 111-118
- Smith, J. L. (2002)  
*Campylobacter jejuni* infection during pregnancy: long-term  
consequences of associated bacteremia, Guillain-Barré syndrome,  
and reactive arthritis.  
J. Food Protect. 65, 696-708
- Smith, Th. (1891)  
Über einen neuen Kommabazillus.  
In: Kleine bakteriologische Mitteilungen.  
Zit. nach Görgen, M. (1982)

- Zbl. Bak. 10, 177-186
- Smith, T. und Taylor, M. S. (1919)  
Some morphological and biological characters of the Spirilla  
(*Vibrio fetus* n. sp.) associated with disease of the fetal  
membranes in cattle.  
J. Exp. Med. 30, 299-311
- Smith, T. und Orcutt, M. L. (1927)  
Vibrion from calves and their serological relation to *Vibrio fetus*.  
J. Exp. Med. 45, 391-397
- Smith, S. I., Olukoya, D. K., Fox, A. J. und Coker A. O. (2000)  
Genotyping of clinical and chicken isolates of *Campylobacter jejuni*  
and *Campylobacter coli*.  
Cytobios 103, 91-101
- Smitherman, R. E., Genigeorgis, C. A. und Farver, T. B. (1984)  
Preliminary observations on the occurrence of *Campylobacter jejuni*  
at four California chicken ranches.  
J. Food Protect. 47, 293-298
- Sorvillo, F. J., Lieb, L. E. und Waterman, S. H. (1991)  
Incidence of campylobacteriosis among patients with AIDS in Los  
Angeles County.  
J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 4, 598-602
- Stanley, J., Linton, D., Sutherland, K., Jones, C. und Owen, R. J. (1995)  
High-resolution genotyping of *Campylobacter coli* identifies clones  
of epidemiologic and evolutionary significance.  
J. Infect. Dis. 172, 1130-1134
- Stanley, K., Cunningham, R. und Jones, K. (1998)  
Isolation of *Campylobacter jejuni* from groundwater.  
J. Appl. Microbiol. 85, 187-191
- Steele, T.W. und Mc Dermott, S. W. (1978)  
*Campylobacter enteritis* in South Australia.  
Med. J. Aust. 2, 404-406
- Steele, T.W. und Mc Dermott, S.W. (1984)  
The use of membrane filters applied directly to the surface of agar  
plates for the isolation of *Campylobacter jejuni* from feces.

- Pathology 16, 263-265
- Steele, M., McNab, B., Fruhner, L., DeGrandis, S., Woodward, D. und Odumeru, J. A. (1998)  
Epidemiological typing of *Campylobacter* isolates from meat processing plants by pulsed-field gel electrophoresis, fatty acid profile typing, serotyping, and biotyping.  
Appl. Environ. Microbiol. 64, 2346-2349
- Steinbrueckner, B., Haerter, G., Pelz, K. und Kist, M. (1999)  
Routine identification of *Campylobacter jejuni* and *Campylobacter coli* from human stool samples.  
FEMS Microbiol. Lett. 179, 227-232
- Stern, N. J., Rothenberg, P. J. und Stone, J. M. (1985)  
Enumeration and reduction of *Campylobacter jejuni* in poultry and red meats.  
J. Food Protect. 48, 606-610
- Stern, N. J., Bailey, J. S., Blankenship, L. C., Cox, N. A. und McHan, F. (1988)  
Colonization characteristics of *Campylobacter jejuni* in chick ceca.  
Avian Dis. 32, 330-334
- Stern, N. J., Jones, D. M., Wesley, I. V. und Rollins, D. M. (1994)  
Colonization of chicks by non-culturable *Campylobacter* spp.  
Lett. Appl. Microbiol. 18, 333-336
- Stern, N. J., Clavero, M. R. S., Bailey, J. S., Cox, N. A. und Robach, M. C. (1995)  
*Campylobacter* spp. in broilers on the farm and after transport.  
Poultry Science 74, 937-941
- Stern, N. J., Bailey, J. S., Cox, N. A., Craven, S. E. und Cray, P. F. (1999)  
Flow of *Campylobacter* spp. through US poultry operations.  
10<sup>th</sup> International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms.  
Baltimore, USA
- Stern, N. J., Fedorka-Cray, P., Bailey, J. S., Cox, N. A., Craven, S. E., Hiett, K. L., Musgrove, M. T., Ladely, S., Cosby, D. und Mead, G. C. (2001)  
Distribution of *Campylobacter* spp. in selected U.S. poultry production and processing operations.

- J. Food Protect. 64, 1705-1710
- Studer, E., Lüthy, J. und Hübner, P. (1999)  
Study of the presence of *Campylobacter jejuni* and *C. coli* in sand samples from four Swiss chicken farms.  
Res. Microbiol. 150, 213-219
- Suerbaum, S., Lohrengel, M., Sonnevend, A., Ruberg, F. und Kist, M. (2001)  
Allelic diversity and recombination in *Campylobacter jejuni*.  
J. Bacteriol. 183, 2553-2559
- Suzuki, Y., Ishihara, M., Funabashi, M., Suzuki, R., Isomura, S. und Yokochi, T. (1993)  
Pulsed-field gel electrophoretic analysis of *Campylobacter jejuni* DNA for use in epidemiological studies.  
J. Infect. 27, 39-42
- Suzuki, Y., Ishihara, M., Saito, M., Ishikawa, N. und Yokochi, T. (1994)  
Discrimination by means of pulsed-field gel electrophoresis between strains of *Campylobacter jejuni* Lior type 4 derived from sporadic cases and from outbreaks of infection.  
J. Infect. 29, 183-187
- Svedhem, A., Kaijser, B., Sjörgen, E. (1981)  
The occurrence of *Campylobacter jejuni* in fresh food and survival under different conditions.  
J. Hyg. 87, 421
- Svenungsson, B., Lagergren, A., Ekwall, E., Evengard, B., Hedlund, K. O., Kärnell, A., Löfdahl, S., Svensson, L. und Weintraub, A. (2000)  
Enteropathogens in adult patients with diarrhea and healthy control subjects: a 1-year prospective study in a Swedish clinic for infectious diseases.  
Clin. Infect. Dis. 30, 770-778
- Tam, C. C. (2001)  
*Campylobacter* reporting at its peak year of 1998: don't count your chickens yet.  
Commun. Dis. Public Health 4, 194-199

- Tarjan, V. (1984)  
Die Empfindlichkeit von *Campylobacter fetus* subsp. *jejuni* (Cfj) gegenüber Gammabestrahlung.  
Acta Aliment. 13, 244
- Tarkowski, J. A., Staffer, S. C. C., Beumer, R. und Kampelmacher, E. H. (1984)  
Low dose gamma irradiation of raw meat.  
I. Bacteriological and sensory quality effects in artificially contaminated samples.  
Int. J. Food Microbiol. 1, 13-23
- Tauxe, R. V. (1992)  
Epidemiology of *Campylobacter jejuni* infections in the United States and other industrialized nations.  
In: Nachamkin, I., Blaser, M. J. und Tompkins, L. S. (Hrsg.):  
*Campylobacter jejuni*: current status and future trends.  
Am. Society for Microbiol., Washington, D. C., 9-19
- Taylor, D. E. (1992)  
Genetic analysis of *Campylobacter* spp.  
In: Nachamkin, I., Blaser, M. J. und Tompkins, L. S. (Hrsg.):  
*Campylobacter jejuni*: current status and future trends.  
Am. Society for Microbiol., Washington, D. C., 255-266
- Taylor, D. E., Garner, R. S. und Allan, B. J. (1983)  
Characterization of tetracycline resistance plasmids from *Campylobacter jejuni* and *Campylobacter coli*.  
Antimicrob. Agents Chemother. 24, 930-935
- Taylor, D. E., Eaton, M., Yan, W. und Chang, N. (1992)  
Genome maps of *Campylobacter jejuni* and *Campylobacter coli*.  
J. Bacteriol. 174, 2332-2337
- Tenover, F. C., Williams, S., Gordon, K. P., Nolan, C. und Plorde, J. J. (1985)  
Survey of plasmids and resistance factors in *Campylobacter jejuni* and *Campylobacter coli*.  
Antimicrob. Agents Chemother. 27, 37-41
- Tenover, F. C., Baker, C. N., Fennell, C. L. und Ryan, C. A. (1992)  
Antimicrobial resistance in *Campylobacter* species.  
In: Nachamkin, I., Blaser, M. J. und Tompkins, L. S. (Hrsg.):

- Campylobacter jejuni*: current status and future trends.  
Am. Society for Microbiol., Washington, D. C. 66-73
- Tenover, F. C., Arbeit, R. D., Goering, R. V., Mickelsen, P. A., Murray, B. E.,  
Persing, D. H. und Swaminathan, B. (1995)  
Interpreting chromosomal DNA restriction patterns produced by  
pulsed-field gel electrophoresis: criteria for bacterial strain typing.  
*J. Clin. Microbiol.* 33, 2233-2239
- Terzieva, S. I. und McFeters, G. A. (1991)  
Survival and injury of *Escherichia coli*, *Campylobacter jejuni* and  
*Yersinia enterocolitica* in stream water.  
*Can. J. Mikrobiol.* 37, 785-790
- Thies, F. L., Hartung, H.-P. und Giegerich, G. (1998)  
Cloning and expression of *Campylobacter jejuni lon* gene detected  
by RNA arbitrarily primed PCR.  
*FEMS Microbiol. Lett.* 165, 329-334
- Thies, F. L., Weishaupt, A., Karch, H., Hartung, H.-P. und Giegerich, G. (1999a)  
Cloning, sequencing and molecular analysis of the *Campylobacter  
jejuni groESL* bicistronic operon.  
*Microbiology* 145, 89-98
- Thies, F. L., Karch, H., Hartung, H.-P. und Giegerich, G. (1999b)  
Cloning and expression of the *dnaK* gene of *Campylobacter jejuni*  
and antigenicity of heat shock protein 70.  
*Infect. Immun.* 67, 1194-1200
- Tholozan, J. L., Cappelier, J. M., Tissier, J. P., Delattre, G. und Federighi, M.  
(1999)  
Physiological characterization of viable-but-nonculturable  
*Campylobacter jejuni* cells.  
*Appl. Environ. Microbiol.* 65, 1110-1116
- Thomas, C. und Mabey, M. (1996)  
Survival of *Campylobacter* in water.  
In: Newell, D. G., Ketley, J. M. und Feldman, R. A. (Hrsg.):  
*Campylobacter, Helicobacter and Related Organisms*.  
New York: Plenum, 169-170

- Thomas, C., Hill, D. J. und Mabey, M. (1999)  
 Morphological changes of synchronized *Campylobacter jejuni* populations during growth in single phase liquid culture.  
*Lett. Appl. Microbiol.* 28, 194-198
- Thomas, J. C. (1997)  
 An investigation of factors influencing the survival of *Campylobacter* spp. in the aquatic environment.  
 PhD Thesis. England: University of Wolverhampton.
- Thomas, L. M., Long, K. A., Good, R. T., Panaccio, M. und Widders, P. R. (1997)  
 Genotypic diversity among *Campylobacter jejuni* isolates in a commercial broiler flock.  
*Appl. Environ. Microbiol.* 63, 1874-1877
- Thompson, J. S., Hodge, D. S., Smith, D. E. und Yong, Y. A. (1990)  
 Use of tri-gas incubator for routine culture of *Campylobacter* species from fecal specimens.  
*J. Clin. Microbiol.* 28, 2802-2803
- Thurm, V. und Dinger, E. (1993)  
 Epidemiologie der Lebensmittelinfektionen als laborgestützte Infektionsepidemiologie im Bereich der Veterinärmedizin.  
*Bundesgesundhbl.* 36, 308-313
- Thurm, V. und Dinger, E. (1998)  
 Lebensmittelbedingte *Campylobacter*infektionen- infektionsepidemiologische Aspekte der Ursachenermittlung, Überwachung und Prävention bei Ausbrüchen durch *Campylobacter jejuni*.  
 In: Infektionsepidemiologische Forschung. 4. Weltkongress Lebensmittelinfektionen und –intoxikationen 7.-12. Juni 1998, Berlin.  
 Robert Koch Institut, Info II/98, 6-10
- Totten, P. A., Patton, C. M., Tenover, F. C., Barrett, T. J., Stamm, W. E., Steigerwald, A. G., Lin, J. Y., Holmes, K. K. und Brenner, D. J. (1987)

- Prevalence and characterization of hippurate-negative *Campylobacter jejuni* in King County, Washington.  
J. Clin. Microbiol. 25, 1747-1752
- Trachoo, N., Frank, J. F. und Stern, N. J. (2001)  
Survival of *Campylobacter jejuni* in biofilms isolated from chicken houses.  
J. Food Protect. 65, 1110-1116
- Ursing, J. B., Lior, H. und Owen, R. J. (1994)  
Proposal of minimal standards for describing new species of the family Campylobacteraceae.  
Int. J. Syst. Bacteriol. 44, 842-845
- Vandamme, P. und De Ley, J. (1991)  
Proposal for a new family, Campylobacteraceae.  
Int. J. Syst. Bacteriol. 41, 451-455
- Vandamme, P. und Goossens, H. (1992)  
Taxonomie of *Campylobacter*, *Arcobacter* and *Helicobacter*: a review.  
Zbl. Bakt. 276, 447-472
- Vandamme, P., Falsen, E., Rossau, R., Hoste, B., Segers, P., Tytgat, R. und De Ley, J. (1991)  
Revision of *Campylobacter*, *Helicobacter*, and *Wolinella* taxonomy: emendation of generic descriptions and proposal of *Arcobacter* gen. nov.  
Int. J. Syst. Bacteriol. 41, 88-103
- Vandamme, P., Vancanneyt, M., Pot, B., Mels, L., Hoste, B., Dewettinck, D., Vlaes, L., Van Den Burre, C., Higgins, R., Hommez, J., Kersters, K., Butzler, J.-P. und Goossens, H. (1992)  
Polyphasic taxonomic study of the emended genus *Arcobacter* with *Arcobacter butzleri* comb. nov. and *Arcobacter skirrowii* sp. nov., an aerotolerant bacterium isolated from veterinary specimens.  
Int. J. Syst. Bacteriol. 42, 344-356

- van de Giessen, A. W., Mazurier, S.-I., Jacobs-Reitsma, W., Jansen, W., Berkers, P., Ritmeester, W. und Wernars, K. (1992) Study on the epidemiology and control of *Campylobacter jejuni* in poultry broiler flocks. *Appl. Environ. Microbiol.* 58, 1913-1917
- van de Giessen, A. W., Bloemberg, B. P. M., Ritmeester, W. S. und Tilburg, J. J. H. C. (1996) Epidemiological study on risk factors and risk reducing measures for campylobacter infections in Dutch broiler flocks. *Epidemiol. Infect.* 117, 245-250
- van de Giessen, A. W., Tilburg, J. J. H. C., Ritmeester, W. S. und van der Plas, J. (1998) Reduction of campylobacter infections in broiler flocks by application of hygiene measures. *Epidemiol. Infect.* 121, 57-66
- Vancoof, R. (1984) Susceptibility of campylobacters to antimicrobial agents. In: Butzler, J.-P. (Hrsg.): *Campylobacter* infection in man and animals. CRC Press, Inc., Boca Raton, Florida, 78-85
- Véron, M. und Chatelain, R. (1973) Taxonomic study of the genus *Campylobacter* Sebald and Véron and designation of the neotype strain for the type species *Campylobacter fetus* (Smith and Taylor) Sebald and Véron. *Int. J. Syst. Bacteriol.* 23, 122-134
- Véron, M. und Lenvoisé-Furet, A. L. (1982) Anaerobic respiration of fumarate by catalase-positive Campylobacters. In: Newell, D.G.(Hrsg.): *Campylobacter* Epidemiology, Pathogenesis and Biochemistry. MTP Press Limited, Lancaster, Boston, 57-58
- Vincent, R., Dumas, J. und Picard, N. (1947) Septicémie grave au cours de la grossesse, due à unvibron. Avortement consécutif.

- Bull. C. R. Acad. Nat. Med. 131, 90-92
- Von Graevenitz, A. (1990)  
Revised nomenclature of *Campylobacter laridis*, *Enterobacter intermedium*, and „*Flavobacterium branchiophila*“.  
Int. J. Syst. Bacteriol. 40, 211
- Waldroup, A. L. (1996)  
Contamination of raw poultry with pathogens.  
Worlds Poultry Science Journal 52, 7-25
- Wallace, J. S., Stanley, K. N., Currie, J. E., Diggle, P. J. und Jones, K. (1997)  
Seasonality of thermophilic *Campylobacter* populations in chickens.  
J. Appl. Microbiol. 82, 219-224
- Wang, W.-L. L., Blaser, M. und Cravens, J. (1978)  
Isolation of *Campylobacter*.  
Br. Med. J. 3, 57
- Wang, W.-L.L., Powers, B. W., Luechtfeld, N. W. und Blaser, M. J. (1983)  
Effects of disinfectants on *Campylobacter jejuni*.  
Appl. Environ. Microbiol. 45, 1202-1205
- Wang, Y. und Taylor, D. (1990)  
Natural transformation in *Campylobacter* species.  
J. Bacteriol. 172, 949-955
- Wassenaar, T. M. (1997)  
Toxin production by *Campylobacter* spp.  
Clin. Microbiol. Rev. 10, 466-476
- Wassenaar, T. M. und Newell, D. G. (2000)  
Genotyping of *Campylobacter* spp.  
Appl. Environ. Microbiol. 66, 1-9
- Wassenaar, T. M., Geilhausen, B. und Newell, D. G. (1998)  
Evidence of genomic instability in *Campylobacter jejuni* isolated from poultry.  
Appl. Environ. Microbiol. 64, 1816-1821
- Wassenaar, T. M., On, S. L. W. und Meinersmann, R. (2000)  
Genotyping and the consequences of genetic instability.  
In: Nachamkin, I. und Blaser, M. J. (Hrsg.):

- Campylobacter.*  
Am. Society for Microbiol., Washington, D. C., 2<sup>nd</sup> edition, 369-380
- Wedderkopp, A., Gradel, K. O., Jorgensen, J. C. und Madsen, M. (2001)  
Pre-harvest surveillance of *Campylobacter* and *Salmonella* in  
Danish broiler flocks: a 2-year study.  
Int. J. Food Microbiol. 68, 53-59
- Welsh, J. und McClelland, M. (1990)  
Fingerprinting genomes using PCR with arbitrary primers.  
Nucleic Acids Res. 18, 7213-7218
- Wempe, J. M., Genigeorgis, C. A., Farver, T. B. und Yusufu, H. I. (1983)  
Prevalence of *Campylobacter jejuni* in two California chicken  
processing plants.  
Appl. Environ. Microbiol. 45, 355-359
- Whyte, P., Collins, J. D., McGill, K., Monahan, C. und O'Mahony, H. (2001a)  
Distribution and prevalence of airborne microorganisms in three  
commercial poultry processing plants.  
J. Food Protect. 64, 388-391
- Whyte, P., Collins, J. D., McGill, K., Monahan, C. und O'Mahony, H. (2001b)  
The effect of transportation stress on excretion rates of  
campylobacters in market-age broilers.  
Poultry Science 80, 817-820
- Williams, J. G. K., Kubelik, A. R., Livak, K. J., Rafalsky, J. A. und Tingey, S. V.  
(1990)  
DNA polymorphisms amplified by arbitrary primers are useful as  
genetic markers.  
Nucleic Acids Res. 18, 6531-6535
- Willis, W. L. und Murray, C. (1997)  
*Campylobacter jejuni* seasonal recovery observations of retail  
market broilers.  
Poultry Science 76, 314-317
- Wilson, I. G. und Moore, J. E. (1996)  
Presence of *Salmonella* spp. and *Campylobacter* spp. in shellfish.  
Epidemiol. Infect. 116, 147-153

- Wretlind, B., Strömberg, A., Östlund, L., Sjögren, E. und Kaijser, B. (1992)  
Rapid emergence of quinolone resistance in *Campylobacter jejuni*  
in patients treated with norfloxacin.  
Scand. J. Infect. Dis. 24, 685-686
- Wundt, W. und Kasper, G. (1982)  
Die Diagnose der Infektion durch *Campylobacter fetus* subsp.  
*jejuni*.  
ÄrztL. Lab. 28, 42-46
- Wundt, W., Kutscher, A. und Kasper, G. (1985)  
Untersuchungen zum Verhalten von *Campylobacter jejuni* in  
verschiedenen Lebensmitteln.  
Zbl. Bakt. Hyg., I. Abt. Orig. B 180, 528-533
- Yan, W., Chang, N. und Taylor, D. E. (1991)  
Pulsed-field gel electrophoresis of *Campylobacter jejuni* and  
*Campylobacter coli* genomic DNA and its epidemiologic  
application.  
J. Infect. Dis. 163, 1068-1072
- Yang, H., Li, Y. und Johnson, M. G. (2001)  
Survival and death of *Salmonella* Typhimurium and  
*Campylobacter jejuni* in processing water and on chicken skin  
during poultry scalding and chilling.  
J. Food Protect. 64, 770-776
- Zanetti, F., Varoli, O., Stampi, S. und De Luca, G. (1996)  
Prevalence of thermophilic *Campylobacter* and *Arcobacter butzleri*  
in food of animal origin.  
Int. J. Food Microbiol. 33, 315-321
- Ziprin, R. L., Young, C. R., Stanker, L. H., Hume, M. E. und Konkel, M. E.  
(1999)  
The absence of cecal colonization of chicks by a mutant of  
*Campylobacter jejuni* not expressing bacterial fibronectin-binding  
protein.  
Avian Dis. 43, 586-589