

CHAPTER VII

REFERENCES

- Abbas, A. K.; Lichtman, A. H. and Pober, J. S. (1997):** General properties of immune responses. In cellular and molecular immunology, 3rd edition Philadelphia, WB Saunders, p. 3.
- Agresti, A. (1992):** A survey of Exact Inference for Contingency Tables. Statistical Science, 7 (1): 131–153.
- Agüloğlu, S.; Turhanoglu, M.; Eskimez, S. and Tacir, İ. (2006):** Detection of *Helicobacter pylori* colonization in human dental plaques and saliva of patients with chronic gastritis. Biotechnol. & Biotechnol., p. 173-178.
- Akamatsu, T.; Tabata, K.; Hiornga, M. and Uyeda M. (1996):** Transmission of *Helicobacter pylori* infection via flexible fibrotic endoscopy. Am. J. Infect., Control 24: 396-401.
- Albert, B.; Bary, D.; Lewis, J.; Raff, M.; Roberts, K. and Watson J. D. (1989):** Molecular biology of the cell. p. 107-132. Arnold publishing, Inc. New York & London, 2nd edition.
- Altman, D. G. and Martin, B. J. (1998):** Generalization and extrapolation. B. M. J., 317 (7155): 409.
- Andersen, L. P.; Halek, S. C. O.; Elsborg, L. and Justensen, T. (1987):** *Campylobacter pylori* in peptic ulcer disease, histological and microbiological findings. Scandinavian Journal of gastroenterology, 22: 219.

- Andersen, L. P. and Espersen, F. (1999)** : Immunoglobulin G antibodies to *Helicobacter Pylori* in patients with dyspeptic symptoms investigated by the Western immunoblot technique. J. Clin. Microbiol., 30: 1743-1751.
- Andrews, A. T. (1990)**: Acid-Urea detergent gels, p. 141-143 in electrophoresis theory, techniques and biochemical and clinical applications, 2nd edition, Oxford Science Publications, Oxford.
- Appelmelk, B. J.; Martin, S. L.; Monterio, M. A.; Clayton, C. A.; McColm, A. A. and Zheng, P. (1999)**: Phase variation in *Helicobacter pylori* lipopolysaccharide due to changes in the lengths of poly (C) tracts in α -3 fucosyltransferase genes. Infect. Immun., 67: 5361-5366.
- Appelmelk, B. J.; Simoons, S. I. and Negrini, R. (1996)**: Potential role of molecular mimicry between *Helicobacter pylori* lipopolysaccharide and host Lewis blood group antigens in autoimmunity. Infect. Immune., 64: 2031-2040.
- Aspinall, G. O. and Monterio, M. A. (1996)**: LPS of *Helicobacter pylori* strains P466 and M019: structures of the O antigen and core oligosaccharide regions. Biochemistry, 35: 2498-2504.
- Austin, J. W.; Doig, P. and Trust, T. J. (1992)**: Structural comparison of urease and a GroEL analog from *Helicobacter pylori*. J. Bacteriol., 174:7470-7473.
- Avcu, N.; Avcu, F.; Beyan, C.; Ural, A.U.; Kaptan, K.; Ozyurt, M.; Nevruz, O. and Yalcin, A. (2001)**: Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod., 92: 166-169.

- Baqir, H. T.; Abdullah, A. M.; Al-Bana, A. S. and Al-Ubaidi, H. M. (2002):** Seroprevalence of *Helicobacter pylori* infection in unselected adult population in Iraq I. J. G. E., Issue 3, Vol. 1.
- Berstad, K.; Sjodahl, R. and Berstad, A. (1994):** Phospholipase A₂ activity in gastric Juice from patients will active and *Helicobacter pylori* eradicated healed duodenal ulcer. Alimant. Pharmacol. Ther., 3: 175-180.
- Berzofsky, J. A.; Berkower, I. J. and Epstein, S. L. (1999):** Antigen-antibody interactions and monoclonal antibodies. In Fundamental Immunology, 4th edition, Philadelphia, Lippincott & Raven, p. 75.
- Blaser, M. J. (1990):** *Helicobacter pylori* and the pathogenesis of gastroduodenal inflammation. J. Infect. Dis., 161: 626-633.
- Blaser, M. J. (1992):** Hypotheses on the pathogenesis and natural history of *Helicobacter pylori* induced inflammation. Gastroenterology, 102: 720-727.
- Blaser, M. J. and Parsonnet, J. (1994):** Parasitism by the "slow" bacterium *Helicobacter pylori* leads to altered gastric homeostasis and neoplasia. J. Clin. Invest., 94: 4-8.
- Blaser, M. J. (1997):** All *Helicobacter pylori* strains are not created equal: Should all be eliminated? Lancet., 349: 1020-1022.
- Bode, G.; Mauch, F. and Malfertheiner, P. (1993):** Identification of structures containing polyphosphate in *Helicobacter pylori*. J. Gen. Microbiol., 139: 3029-3033.
- Bode, G.; Song, Q.; Barth, R. and Adler, G. (1997):** Phospholipase C activity of *Helicobacter pylori* is not associated with the prevalence of the *cag A* gene. Second European Meeting on

Pathogenesis and host-response in *Helicobacter pylori* Infections. Galway, Ireland, 423.

Boyanova, L. (2009): Prevalence of multidrug-resistant *Helicobacter pylori* in Bulgaria. Journal of Medical Microbiology., 58 (7): 930-935.

Boyanova, L.; Lazarova, E.; Jeleu, C.; Gerova, G. and Mitov, I. (2007): *Helicobacter pylori* and *Helicobacter heilmannii* in untreated Bulgarian children over a period of 10 years. Journal of Medical Microbiology., 56 (8): 1081-1085.

Brenner, H.; Rothenbacher, D.; Bode, G.; Gommel, R.; Berg, G. and Adler, G. (2000): Parental smoking and infection with *Helicobacter pylori* among preschool children-Reply. Epidemiology, 11: 231-232.

Brown, L. M. (2000): Epidemiology and routes of transmission Epidemiol. Rev., 22 (2): 283-97.

Buck, G. E. (1990): *Campylobacter pylori* and gastroduodenal diseases. Clinical Microbiology, Review, 3 (1): 1.

Buck, G. E.; Gaurley, W. K. and Lee, W. K. (1986): Relation of *Campylobacter pyloridis* to gastritis and peptic ulcer. Journal of infection disease, 153: 664.

Burns, B. P.; Hazell, S. L. and Mendz, G. L. (1995): Acetyl-CoA carboxylase activity in *Helicobacter pylori* and the requirement of increased CO₂ for growth. Microbiology, 141: 3113-3118.

Cammarota, G.; Tursi, A.; Montalto, M.; Papa, A.; Veneto, G. and Bernardi, S. (1996): Role of dental plaque in the transmission

of *Helicobacter pylori* infection. J. Clin. Gastroenterol., 22: 174-177.

Cao, P.; McClain, M. S.; Forsyth, M. H. and Cover, T. L. (1998): Extracellular release of antigenic proteins by *Helicobacter pylori*. Infect. Immune., 66: 2984-2986.

Chan, X. G. P.; Correa, J. and Offerhans, E. (1990): Ultra-structure of the gastric mucosa harboring *Campylobacter* like organism. American Journal of Clinical pathology., 66: 575.

Caselli, M.; Aleotti, A.; Boldrini, P. and Alvlsi, V. (1993): Ultra-structural patterns of *Helicobacter pylori*. Gut., 34: 1507-1509.

Cheng, L. H. H. ; Webberley, M.; Evans, M.; Hanson, N. and Brown, R. (1996): *Helicobacter pylori* in dental plaque and gastric mucosa, Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology, Volume 81, Issue 4, p. 421-423.

Chitsazi, M. T.; Fattahi, E.; Farahani, R. M. Z. and Fattahi, S. (2006): *Helicobacter pylori* in the dental plaque: Is it of diagnostic value for gastric infection?. Med. Oral Pathol. Oral Cir. Bucal., 11: 325-8.

Cho, A. R. and Lee, M. K. (2010): A comparison on the diagnosis of *Helicobacter pylori* infection and the detection of clarithromycin resistance according to Biopsy Sites. The Korean journal of laboratory medicine., 30 (4): 381-387.

Chowdhury, M. N.; Al-Hedai-Thy, S. S. and Mofleh, I. A. (1991): Use of selective and non-selective media for the isolation of *Helicobacter pylori*. Trop. Gastric., 12(2): 73-77.

- Chromabach, A. (1985):** The practice of Quantitative gel Electrophoresis. VCH Press., Weiheim.
- Cizinn, S.; Carr, H.; Sheffer, L. and Aronoff, S. (1989):** Serum IgG antibody to the outer membrane proteins of *Campylobacter pylori* in children with gastroduodenal disease. Journal of Infection Disease., 159: 589.
- Cole, S. P.; Girillo, D. and Cagnoff, M. F. (1997):** Coccoid and spiral *Helicobacter pylori* differ in their abilities to adhere to gastric epithelial cells and induce IL-8 secretion. Infect. Immune., 65: 843-846.
- Collins, J. S.; Hamilton, P. W.; Watt, P. C. and Love, A. H. (1989):** Superficial gastritis and *Campylobacter pylori* dyspeptic patients-a quantitative study using computer linked image analysis. J. Pathol., 158: 303-310.
- Coudron, P. E. and Stratton, C. W. (1995):** Factors affecting growth and susceptibility testing of *Helicobacter pylori* in liquid media. J. Clin. Microbiol., 33: 1028-1030.
- Cover, T. I.; Puryear, W.; Perez-Perez, G. I. and Blaser, M. J. (1992):** Further evidence of the toxic effect of ammonia produced by *Helicobacter pylori* urease on human Epithelial cells. Infect. Immune., 60: 158-1863.
- Coyle, W. J.; Sedlack, R. E.; Nemec, R.; Peterson, R.; Duntelman, T.; Murphy, M. and Lawson, J. M. (1999):** Eradication of *Helicobacter pylori* normalizes elevated mucosal levels of epidermal growth factor and its receptor Am. J. gastroenterol., 94: 2885-2889.

- Davies, H. T. O.; Crombie, I. K. and Tavakoli, M. (1998):** When can odds ratios mislead?. *British Medical Journal*, 316: 989-991.
- Debongnie, J. C.; Donnay, M. and Mairesse, J. (1995):** Gastro-spirillum hominis ("*Helicobacter heilmanii*"): A cause of gastritis, sometimes transient, better diagnosed by touch cytology? *Am. J. Gastroenterol.*, 90: 411-6.
- Debongnie, J. G.; Mairesse, J. and Donnay, M. (1994):** Touch cytology. A quick simple sensitive screening test in the diagnosis of infections of gastrointestinal mucosa. *Arch. Pathol. Lab. Med.*, 118: 1115-1118.
- Deeks, J. (1996):** Swats corner: What is an odds ratio? *Bandolier*, 3 (3), Issue 25: 6-7.
- Doig, P.; Exner, M. R.; Hancock, R. E. and Trust, T. J. (1995):** Isolation and characterization of a conserved porin protein from *Helicobacter pylori*. *J. Bacteriol.*, 177: 5447-5452.
- Doig, P. and Trust, T. J. (1994) :** Identification of surface-exposed outer membrane antigens of *Helicobacter pylori*. *Infect. Immune.*, 62: 4526-4533.
- Dooly, C. P.; Cohen, H.; Fitzgibbons, P. L.; Bauer, M.; Appleman, M. D.; Perez-Perez, G. I. and Blaser, M. J. (1989):** Prevalence of *Helicobacter pylori* infection and histological gastritis in a symptomatic. *New England Medical Journal*, 321: 1562-1566.
- Dore, M. P.; Osato, M. S.; Malaty, H. M. and Graham, D. Y. (2000):** Characterization of a culture method to recover *Helicobacter pylori* from the faeces of infected patients. *Helicobacter* 2000, 5: 165-168.

- Du Moulin, G. C.; Paterson, D. G.; Hedley-Whyte, J. and Lisbon, A. (1982):** Aspiration of gastric bacteria in antacid-treated patients. *Lancet.*, 1: 242–245.
- Dubois, A.; Fiala, N. and Heman-Ackah, L. M. (1994):** Natural gastric infection with *Helicobacter pylori* in monkeys: A model for human infection with spiral bacteria. *Gastroenterology*, 106: 1405-1417.
- Dunn, B. E.; Perez-Perez, G. I. and Blaser, M. J. (1989):** Two-dimensional gel electrophoresis and immunoblotting of *Campylobacter pylori* proteins. *Infect. Immune.*, 57: 1825-1833.
- Dunn, B. E.; Cohen, H. and Blaser, M. J. (1997a):** *Helicobacter pylori*. *Clinical microbiology reviews*, 10: 720-741.
- Dunn, B. E.; Vakil, N. B. and Phadnis, S. H. (1997b):** Localization of *Helicobacter pylori* urease and heat shock protein homology in human gastric biopsies. *Infect. Immune.*, 65: 1181-1188.
- Edwards, N. J.; Monterio, M. A.; Faller, G.; Walsh, E. J.; Moran, A. P.; Roberts, I. S.; High, N. J. and Lewis, X. (2000):** Structures in the O antigen side-chain promote adhesion of *Helicobacter pylori* to the gastric epithelium. *Mol. Microbiol.*, 35: 1530-1539.
- Eidt, S.; Stolte, M. and Ficher, R. (1994):** *Helicobacter pylori* gastritis and primary gastric non-Hodgkin's lymphomas. *J. Clin. Pathol.*, 47: 436-439.
- Eller, J.; Lapa e Silva, J. R.; Poulter, L. W. ; Lode, H. and Cole, P. J. (1994):** Cells and cytokines in chronic bronchial infection. *Ann. New York. Acad. Sci.*, 725: 331–345.

- Ellner, P. D.; Stoessel, C. J.; Drakeford, E. and Vasi, F. (1966):** Tech. Bull. Reg. Med. Techno. 36. No. 3, reprinted in Amer. J. Clin. Path., 45: 502-504.
- El-Mishad, A. M. (1987):** Antibiotic sensitivity tests in Manual of Practical Microbiology Al-Ahram Commercial Presses, Cairo.
- Ernst, P. E. and Gold, B. D. (1999):** *Helicobacter pylori* in childhood: New insights into the immuno-pathogenesis of gastric disease and implications for managing infection in children. J. Pediatr. Gastroenterol. Nutr., 28: 462-473.
- Evans, D. G.; Karjalainen, T. K.; Evans, J. R.; Graham, D. Y. and Lee, C. H. (1993):** Cloning nucleotide sequence and expression of a gene encoding an adhesin subunit protein of *Helicobacter pylori*. J. Bacteriol., 175: 674–683.
- Exner, M. M.; Doig, P.; Trust, T. J. and Hancock, R. E. (1995):** Isolation and characterization of a family of proin proteins from *Helicobacter pylori*. Infect. Immune., 63: 1567-1572.
- Fallahi, G. H. and Maleknejad, S. (2007):** *Helicobacter pylori* culture and antimicrobial resistance in Iran. Indian. J. Pediatr., 74 (2): 127-130.
- Ferguson, D. A.; Li, C. and Patel, N. R. (1993):** Isolation of *H. pylori* from saliva. J. Clin. Microbiol., 31: 2802-2804.
- Ferrero, R. L.; Thiberge, J. M.; Kansau, L. and Labigne, A. (1995):** The GroES homologue of *Helicobacter pylori* confers protective immunity against mucosal infection in mi. Proc. Natl. Acad. Sci. USA, 92: 6499-6503.

- Fisher, R. A. (1922):** On the interpretation of χ^2 from contingency tables, and the calculation of P. Journal of the Royal Statistical Society, 85 (1): 87–94.
- Fisher, R. A. (1954):** Statistical Methods for Research Workers. Oliver and Boyd.
- Fox, J. G.; Dentuist, F. E. and TuIy, J. G. (1994):** *Helicobacter hepaticus* spp. nov. a microaerophilic bacterium isolated from liver and intestinal mucosal scrapings from mice. J. Clin. Microbiol., 32: 1238-1245.
- Fulkerson, J. F. and Mobley, H. L. (2000):** Membrane topology of the NixA nickel transporter of *Helicobacter pylori*: Two nickel transport-specific motifs within trans-membrane helices II and III. J. Bacteriol., 182: 1722-1730.
- Garfin, G. E. (1990):** One-dimensional gel electrophoresis in " Guide to protein purification". (Duetscher, M. P. ed.) Academic press Inc., Sandiago., California, PP. 425.
- Geis, G.; Suerbaum, S.; Forsthoff, B. and Opferkuch, W. (1993):** Ultra-structural and biochemical studies of the flagellar sheath of *Helicobacter pylori*. J. Med. M., 38: 371-377.
- Ghiara, P.; Marchetti, M.; Blaser, M. J. and Rappuoli, R. (1995):** Role of *H. pylori* virulence factors vacuolating cytotoxin, cagA and urease in a mouse model. Infect. Immune., 63: 4154-4160.
- Goodman, K. J. and Cockburn, M. (1999):** Parental smoking and *Helicobacter pylori* in children. Epidemiology, 10: 564-565.
- Goodman, K. J. and Correa, P. (2000):** Transmission of *Helicobacter pylori* among siblings. Lancet., 355: 358-362.

- Goodwin, C. S.; McCulloh, P. K.; Armstrong, J. A. and Wea, S. H. (1985):** Unusual cellular fatty acids and distinctive ultra-structure in a new spiral bacterium from human gastric mucosa. *J. Med. Microbiol.*, 19: 257-267.
- Goodwin, C. S.; Armstrong, J. A. and Chilivers, T. (1989):** Transfer of *Campylobacter pylori* and *Campylobacter mustlae* *Helicobacter* gen. nov. as *Helicobacter pylori* comb. nov. and *Helicobacter mustlae* comb. nov. respectively. *Int. J. Syst. Bacteriol.*, 39: 397-405.
- Goodwin, C. S. and Armstrong, J. A. (1990):** Microbiological aspects of *Helicobacter pylori* (*Campylobacter pylori*) *Eur. J. Clin. Microbiol.*, 9: 1-13.
- Goodwin, C. S. (1993):** *Helicobacter pylori*: 10th anniversary of its culture in April 1982. *Gut.*, 34: 293-294.
- Goosen, C.; Theron, J.; Ntsala, M.; Maree, F. F.; Olckers, A.; Botha, S. J., Lastovica, A. J. and Merwe, S. W. (2002):** *Journal of Clinical Microbiology*, 40: 205-209.
- Goossens, H. Y., Glupczynski, A., Burette, C.; Van den Borre, C. and Butzeler, J. P. (1992):** Evaluation of a commercially available second-generation immunoglobulin G enzyme immunoassay for the detection of *Helicobacter pylori* infection. *J. Clin. Microbiol.*, 30: 176-180.
- Graham, D. Y.; Alpert, L. C.; Lacey-Smith, J. L. and Loshimura, H. H. (1988):** Iatrogenic *Campylobacter pylori* infection is a cause of epidemic hypochlorhydria. *American Jour. Gastroenterology*, 82: 971-980.

- Gray, S. F.; Wyatt, J. I. and Ratchone, B. J. (1986):** Simplified techniques for identifying *Campylobacter pyloridis* J. Clin. Pathol., 39: 1279.
- Groeneveld, K.; Van Alphen, L.; Eijk, P. P.; Visscher, G.; Jansen, H. M. and Zanen, H. C. (1990):** Endogenous and exogenous re-infections by *Haemophilus influenzae* in patients with chronic obstructive pulmonary disease: The effects of antibiotic treatment on persistence. J. Infect. Dis., 161: 512–517.
- Han, S. W.; Flamm, R.; Hachem, C. Y. and Graham, D. Y. (1995):** Transport and storage of *Helicobacter* from gastric mucosal biopsies and clinical isolates. Eur. J. Clin. Microbiol. Infect. Dis., 14: 349-352.
- Harris, A. W. and Misiewicz, J. J. (1996):** *Helicobacter pylori* Blackwell Healthcare Communications, 26-33.
- Hawrylik, S. J. and Wasilko, D. J. (1994):** Bisulphite or sulphite inhibits growth of *Helicobacter pylori* J. Chin. Microbiol., 32: 790-792.
- He, Y.; Chen, H.; Zheng, J.; Zhang, G. and Chen, Z. (1997):** Differential pulse voltametric enzyme-linked immunoassay for the determination of *Helicobacter pylori* specific immunoglobulin G (IgG) antibody. Atlanta., 44: 823-830.
- Hemalatha, S. G.; Drumm, B. and Sherman, P. (1991):** Adherence of *Helicobacter pylori* to human gastric epithelial cells in vitro. J. Med. Microbiol., 35: 197–202.
- Hessey, S.; Spencer, J. and Wyatt, J. I. (1990):** Bacterial adhesion and disease activity in *Helicobacter* associated gastritis. Gut, 31: 134.

- Hu, L. T. and Mobley, H. L. (1990):** Purification and N-terminal analysis of urease from *Helicobacter pylori*. *Infect. Immune.*, 58: 992-998.
- Hung, K. H.; Sheu, B. S.; Chang, W. L.; Wu, H. M.; Liu, C. C. and Wu, J. J. (2009):** Prevalence of primary fluoroquinolone resistance among clinical isolation of *Helicobacter pylori* at a university hospital in Southern Taiwan. *Helicobacter*, 14 (1): 61-65.
- Ibanez, J.; Penafiel, A.; Raurich, J. M.; Marse, P.; Paternostro, J. C. and Mata, F. (1988):** Gastroesophageal reflux and aspiration of gastric contents during nasogastric feeding, the effects of posture (abstract). *Intens. Care Med.*, 14 (Suppl. 2): 296.
- Inouye, H.; Yamamoto, I.; Tanida, N. and Shimoyama, T. (1989):** *Campylobacter pylori* in Japan: bacteriologic features and prevalence in healthy subjects and patients with gastroduodenal disorders. *Gastroenterol. Japan*, 24: 494-504.
- Jackman, P. J .H. (1985):** Bacterial taxonomy based an electrophoretic whole-cell protein patterns. Academic press. London., PP. 115-129.
- Johnston, B. J.; Reed, P. I. and Ali, M. (1986):** *Campylobacter* like organism in duodenal and antral endoscopic biopsies, relationship to inflammation. *Gut.*, 27: 1132.
- Jones, D. M.; Lessells, A. M. and Eldridge, J. (1984):** *Campylobacter*-like organisms on the gastric mucosa: Culture, histological and serological studies. *J. Clin. Pathol.*, 37: 1002-1006.
- Kanbay, M.; Gur, G.; Araln, H.; Yilmaz, U. and Boyacioglu, S. (2005):** The relationship of ABO blood group, age, sex, smoking and

Helicobacter pylori infection. Digestive disease and sciences, 50 (7): 1214-1217.

Kang, J. Y.; Tay, H. H.; Wee, A.; Guan, R.; Math, M. V. and Yap, I. (1990): Effect of colloidal bismuth sub-citrate on symptoms and gastric histology in non-ulcer dyspepsia. A double blind placebo controlled study. Gut., 31: 476-480.

Kelly, S. M.; Pitcher, M. C. L.; Farmery, S. M. And Gibson, G. R. (1994): Isolation of *Helicobacter pylori* from faeces of patients with dyspepsia in the United Kingdom. Gastroenterology, 107: 167.

Kerstens, K. (1985): Numerical methods in the classification of bacteria by protein electrophoresis. In computer associated bacterial systematics. Edited by M. Goodfellow, D. Jones, and Prest. Academic press., London., p. 337-368.

Kim, J. H.; Kim, H. Y.; Kim, N. Y.; Kim, J. G.; Kim, S. W. and Kim, J. J. (2001): *Helicobacter pylori* infection: Seroepidemiology, diagnosis and treatment. J. Gastroenterol. Hepatol., 16 (9): 969-975.

Kist, M.; Spiegelhalder, C.; Moriki, T. and Schaeffer, H. E. (1993): Interaction of *Helicobacter pylori* (strain 151) and *Campylobacter coli* with human peripheral polymorph nuclear granulocytes Int. J. Med. Microbiol. Virol. Parasitol. Infect. Dis., 280: 58-72.

Kist, M. (2006): Impact of German National Reference Centers on monitoring of antibiotic resistance. Int. J. Med. Microbiol., 296 (41): 55-61.

- Klein, P. D.; Graham, D. Y.; Gaillour, A. and Smith, E. O. (1991):** Water source as risk factor for *Helicobacter pylori* infection in children. *Lancet.*, 337: 1503-1506.
- Knirel, Y. A.; Kocharova, N. A.; Hynes, S. O.; Widmalm, G.; Andersen, L. P.; Jansson, P. E. and Moran, A. P. (1999):** Structural studies on lipopolysaccharide of serologically non-typable strains of *Helicobacter pylori*, AF1 and 007, expressing Lewis antigenic determinants. *Eur. J. Biochem.*, 266: 123-131.
- Koletzko, S.; Haisch, M.; Seeboth, I. and Hering, P. (1995):** Isotope-selective non-dispersive infrared spectrometry for detection of *Helicobacter pylori* infection with ¹³C-urea breath test. *Lancet.*, 345: 961-962.
- Krajden, S.; Fuksa, M. and Aderson, J. (1989):** Examination of human stomach biopsies saliva and dental plaques for *Campylobacter pylori* *J. Clin. Microbiol.*, 27: 1397-1398.
- Labenz, J. and Borsch, G. (1994):** Evidence for the essential role of *Helicobacter pylori* in gastric ulcer disease. *Gut.*, 35:19.
- Labigne, A.; Cussac, V. and Courcoux, P. (1991):** Shuttle cloning and nucleotide sequences of *Helicobacter pylori* genes responsible for urease activity. *J. Bacteriology*, 173: 1920-1931.
- Laemmli, U. K. (1970):** Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature*, 227 (5259): 680–685.
- Laine, L.; Kong, L.; Scott, P. and Neil, G. (1995):** Evidence against oral-oral transmission of *H. pylori*: lack of salivary *H. pylori* detected by PCR. *Gastroenterology*, 108: 142.
- Lambert, J. R.; Dunn, K.; Borromeo, M.; Korman, M. G. and Hansky, J. (1987):** *Campylobacter pylori*. A role in non-ulcer dyspepsia?

Scandinavian Journal of Gastroenterology, 24 (suppl. 160): 7-13.

Lamouliatte, H.; Cayla, R.; Bernard, P. H. and Quinton, A. (1990): Meta-analysis of randomized trials of *Helicobacter pylori* associated non-ulcer dyspepsia. Revista Espanola delas Enfermedades del Aparato. Digestivo., 78 (suppl. 1): 67.

Langenberg, M. L.; Tytgat, G. N. J. and Schipper, M. E. I. (1984): *Campylobacter*-like organisms in the stomach of patients and healthy individuals. Lancet., 1:1248.

Lapa e Silva, J. R.; Jones, J. A. H.; Noble, B.; Cole, P. J. and Poulter, L. W. (1989): The immunological component of the cellular inflammatory infiltrate in bronchiectasis. Thorax, 44: 668–673.

Laporte, R.; Pernes, P.; Pronnier, P.; Gottrand, F. and Neil, G. (2004): Acquisition of infection after outbreaks of gastroenteritis: Prospective cohort survey *Helicobacter pylori* in institutionalized young people. B. M. J., 329 (7459): 204-205.

Lehours, P.; Ruskone-Formestaux, A.; Lavergne, A.; Cantet, F. and Megraud, F. (2003): Which test to use to detect *Helicobacter pylori* infection in patients with low-grade gastric mucosa-associated lymphoid tissue lymphoma? Am. J. Gastroenterol., 98 (2): 291-5.

Lennette, E. H.; Ballows, A.; Hausler, W. J. Jr. and Shadomy, H. J. (1985): Manual of Clinical Microbiology. 4th ed. Washington D.C. American Society for Microbiology.

- Leung, K. M.; Hui, P. K. and Chan, W. Y. (1992):** *Helicobacter pylori* related gastritic ulcer. *Anatomic pathology*, 98(6): 569.
- Leung, W. K.; Siu, K. L. K.; Kwok, C. K. L.; Chan, S. Y.; Sung, R. and Sung, J. J. Y. (1999):** Isolation of *Helicobacter pylori* from vomitus in children and its implication in gastro-oral transmission. *Am. J. Gastroenterol.*, 94: 2881-2884.
- Leunk, R. D.; Johnson, P. T.; David, B. C.; Kraft, W. G. and Morgan, D. R. (1988):** Cytotoxic activity in broth-culture filtrates of *Campylobacter pylori*. *J. Med. Microbiol.*, 26: 93–99.
- Leverstein van Hall, M. A.; Vanderende, A.; Dewit, M. V. and Dankert, J. (1993):** Transmission of *Helicobacter pylori* via faeces. *Lancet.*, 343: 1419-1420.
- Li, C. F.; Ha, T. Z.; Ferguson, D. A. and Thomas, J. E. (1996):** A newly developed PCR assay of *H. pylori* in gastric biopsy saliva and faeces-evidence of high prevalence of *Helicobacter pylori* in saliva supports oral transmission *Dig. Dis. Sci.*, 41: 2142-2149.
- Lichtenterger, L. M.; Hazell, S. L.; Romero, U. and Graham, D. Y. (1990):** *Helicobacter pylori* hydrolysis of artificial phospholipids monolayers: Insight into a potential mechanism of mucosal injury. *Gastroenterology*, 98: 78.
- Lindo, J. F.; Lyn-Sue, A. E.; Palmer, C. J.; Lee, M. G.; Vogel, P. and Robinson, R. D. (1999):** Seroepidemiology of *Helicobacter pylori* infection in a Jamaican community. *Trop. Med. Int. Health*, 4: 862-866.

- Loffeld, R. J. L. F.; Stobberingh, E.; Flendring, J. A. and Arends, J. W. (1990):** Presence of *Helicobacter pylori* in patients with non-ulcer dyspepsia revealing normal antral histological characteristic. *Digestion*, 47: 29-34.
- Logan, S. M.; Colnan, J. W.; Monterio, M. A.; Wakarchuk, W. W. and Altman, E. (2000):** Functional genomics of *Helicobacter pylori*: Identification of a β -1,4 galactosyltransferase and generation of mutants with altered lipopolysaccharide. *Mol. Microbiol.*, 35: 1156-1167.
- Lu, Y.; Redlinger, E. T.; Avita, R.; Galindo, A. and Goodman, K. J. (2002):** Isolation and genotyping of *Helicobacter pylori* from untreated municipal waste water. *Appl. Environ. Microbiol.*, 68 (3): 1436-1439.
- MacFaddin, J. F. (2000):** Biochemical tests for identification of medical bacteria, 3rd (ed.). Lippincott Williams & Wilkins, Philadelphia, PA.
- Makristatinis, A.; Rokita, E.; Labigne, A. and Hirschl, M. (1998):** Highly significant role of *Helicobacter pylori* urease in phagocytosis and production of oxygen metabolites by human granulocytes. *J. Infect. Dis.*, 177: 803-806.
- Malaty, H. M. (2007):** Epidemiology of *Helicobacter pylori* infection. *Baillieres best pract. Clin. Gastroenterol.*, 21 (2): 205-214.
- Malfertheiner, P.; Bode, G.; Staneseu, A. and Ditschuneir, H. (1989):** Gastric metaplasia and *Campylobacter pylori* in duodenal

ulcer disease: An ultra-structural analysis. *Gastroenterology Clinique et Biologique*, 13: 71-74.

Mapstone, N. P.; Lynch, D. A. and Lewis, F. A. (1993): PCR identification of *H. pylori* in faeces from gastritis patients. *Lancet.*, 341: 447.

Marais, A.; Mendz, G. L.; Hazell, S. L. and Megraud, F. (1999): Metabolism and genetics of *Helicobacter pylori*: The genomic era. *Microbiol. Mol. Biol. Rev.*, 63: 642-674.

Marcelli, S. W.; Chang, H. T.; Chapman, T. and Poole, R. K. (1996): The respiratory chain of *Helicobacter pylori*: Identification of cytochromes and the effects of oxygen on cytochrome and menaquinone levels. *FEMS Microbiol. Lett.*, 138: 59-64.

Marie, M. A. (2008): Seroprevalence of *Helicobacter pylori* infection in large series of patients in an Urban Area of Saudi Arabia. *Korean J. Gastroenterol.*, 52 (4): 226-229.

Marshall, B. J. (1989): History of the discovery of *Campylobacter pylori*, p. 7-24. In M. J. Blaser (ed.), *Campylobacter pylori* in gastritis and peptic ulcer disease, Igaku Shoin Publishers, New York.

Marshall, B. J. and Warren, J. R. (1984): Unidentified curved bacilli in the stomach of patients with gastritis and peptic ulceration. *Lancet.*, 1: 1311-1315.

Marshall, B. J. and Goodwin, C. S. (1987): Revised nomenclature of *Campylobacter pyloridis* from human gastric mucosa. *Int. J. Syst. Bact.*, 37:68.

Marshall, B. J.; Raycee, H. and Annear, D. R. (1984): Original isolation of *Campylobacter pyloridis* from human gastric Mucosa. *Micrbio. Letter*, 25: 83-88.

- McNulty, C. M. A. and Watson, D. M. (1984):** Spiral bacteria of the gastric antrum. *Lancet.*, 1: 1068-1069.
- McNulty, C. A. M.; Gearty, J. C. and Crump, B. (1986):** *Campylobacter pyloridis* and associated gastritis: Investigator blind, placebo controlled trial of bismuth subsalicylate and erythromycin ethylsuccinate. *British Medical Journal*, 293: 645-649.
- McNulty, C. M. A. and Dent, J. C. (1987):** Rapid identification of *Campylobacter pylori* by performed enzymes. *J. Clin. Microbiol.*, 25: 1683-1686.
- Megraud, F. (2004):** Basis for the management of drug-resistant *Helicobacter pylori* infection. *Drugs*, 64 (17): 1893-1904.
- Mendz, G. L. and Hazell, S. L. (1991):** Evidence for a pentose phosphate pathway in *Helicobacter pylori*. *FEMS Microbiol. Lett.*, 84: 311-336.
- Mendz, G. L.; Hazell, S. L. and Burns, B. P. (1994):** The Entner-Doudoroff pathway in *Helicobacter pylori*. *Arch. Biochem. Biophys.*, 312: 349-356.
- Mendz, G. L.; Burns, B. P. and Hazell, S. L. (1995):** Characterisation of glucose transport in *Helicobacter pylori*. *Biochem. Biophys. Acta.*, 1244: 269-276.
- Mendz, G. L. and Hazell, S. L. (1995):** Amino acid utilization by *Helicobacter pylori*. *Int. J. Biochem. Cell. Biol.*, 27: 1085-1093.
- Mendz, G. L. and Hazell, S. L. (1996):** The urea cycle of *Helicobacter pylori*. *Microbiology*, 142: 2959-2967.

- Misiewicz, J. J.; Tytgat G. N. J.; Goodwin, C. S.; Price, A. B.; Sipponen, P.; Strickland, R. G. and Cheli, R. (1990):** The Sydney system: A new classification of gastritis. Working party Report, P. 1-10.
- Mobley, H. L.(1997):** *Helicobacter pylori* factors associated with disease development. Gastroenterology, 113: 21-28.
- Mocca, F. I.; Carins, S. R. and Frasc, E. C. (1982):** Sodium dodecyl sulfate polyacrylamide characterizing of *Neissria meningitidis* isolates. J. Clinical Microbiology, 16:240.
- Momenah, A. M. and Ashar, A. H. (2008):** Prevalence and antibiotic resistance among *Helicobacter pylori* clinical isolates from main hospitals in the western region of Saudi Arabia. Pak. J. Med. Sci., 24 (1): 100-103.
- Monterio, M. A.; Appelmelk, B. J.; Rasko, D. A.; Moran, A. P.; Hines, S. O. and Maclean, L. L. (2000):** Lipopolysaccharide structures of *Helicobacter Pylori* genomic strains 26695 and J99, mouse model *H. pylori* Sydney strain, *H. pylori* P466 carrying silayl Lewis X and *H. pylori* UA915 expressing Lewis B; classification of *H. pylori* lipopolysaccharide into glycotype families. Eur. J. Biochem., 267: 305-320.
- Monterio, M. A.; De Mascarel, A.; Sarraspueta, A. M.; Bergey, B.; Barberis, C.; Talby, P.; Roux, D.; Shouler, L.; Goldfain, D.; Lamouliatte, H. and Megraud, F. (2001):** Diagnosis of *Helicobacter pylori* infection: Non-invasive methods compared to invasive methods and evaluation of two new tests. Am. J. Gastroenterol., 96 (2): 353-8.

- Mossi, Z.; Biassem, M. P.; Werth, B. and Dilt, S. (1993):** Role of *Helicobacter pylori* in gastroduodenal disease. Gastroentrol., 401: 385-388.
- Murata, Y.; Kojyo, A.; Ikeda, A. and Yamanaka, K. (2002):** Study on the detection methods of *Helicobacter pylori* from clinical specimens. Rinsho Biseibutshu Jinsoku Shindan Kenkyukai Shi., 12 (2): 105-19.
- Murray, R. P.; Rosenthal, S. K.; Kobayashi, S. G. and Pfaller, A. M. (2002):** *Campylobacter* and *Helicobacter*: Medical Microbiology, chapter., 31: 288-293.
- Nachamin, I. and Skirrow, M. (1998):** *Campylobacter arcobacter* and *Helicobacter*. Topley & Wilson's, 2: 1237-1252.
- Naficy, A. B.; Frenck, R. W.; Abu-Elyazeed, R.; Kim, Y.; Rao, M. R.; Savarino, S. J.; Wierzba, T. F.; Hall, E. and Clemens, J. D. (2000):** Seroepidemiology of *Helicobacter pylori* infection in a population of Egyptian children. Epidemiology Branch, National Institute of Child Health and Human Development, Bethesda, MD 20852, USA. Int. J. Epidemiol. Oct., 29(5): 928-32.
- Nagata, K.; Tsukita, S.; Tamura, T. and Sane, N. (1996):** A cb-type cytochrome-c oxidase terminates the respiratory chain in *Helicobacter pylori*. Microbiology., 14: 1757-1763.
- Ndip, R. N.; Mackay, W. G.; Farthing, M. J. and Weaver, L. T. (2008):** Culturing *Helicobacter pylori* from clinical specimens: Review of microbiological methods. J. Pediatr. Gastroenterol. Nutr., 36 (5): 616-622.

- Neri, M.; Di Muzio, M.; Mauro, G. and Vecchiet, J. (1997):** Spiral and coccoid forms of *Helicobacter pylori* in gastric mucosa biopsies: An electron microscopy study. Second European Meeting on pathogenesis and Host-response in *Helicobacter pylori* infections. Galway, Ireland, 399.
- Ng, T. M.; Fock, K. M. and Ho, J. (1992):** Clotest. (rapid urease test) in the diagnosis of *Helicobacter pylori* infection. Singapore Med. J., 33: 568-569.
- Nguyen, A. M.; El-Zaatari, F. A. and Graham, D. Y. (1995):** *Helicobacter pylori* in the oral cavity. A critical review of the literature. Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod. 1995 Jun., 79(6): 705-9.
- NIH Consensus Conference (1994):** *Helicobacter pylori* in peptic ulcer disease. NIH Consensus development panel on *Helicobacter pylori* in peptic ulcer disease. JAMA, 272: 65-69.
- Nilius, M.; Strohle, A.; Bode, G. and Malfertheiner, P. (1993):** Coccoid like forms (elf) of *Helicobacter pylori*. Enzyme activity and antigenicity. Int. J. Med. Microbiol. Virol. Parasitol. Infect. Dis., 280: 259-272.
- Nilsson, I.; Ljungh, P.; Aleljung, P. and Wastrom, T. (1997):** Immunoblot assay serodiagnosis of *Helicobacter pylori* infection. J. Clin. Microbiol., 35: 427-432.
- Noach, L. A.; Bosma, N. B.; Jansen, J.; Hoek, F. J.; Van Deventer, S. J. and Tytgat, G. N. (1994):** Mucosal tumor necrotic factor-a, interleukin-1b and interleukin 8 production in patients with *Helicobacter pylori* infection. Scand. J. Gastroenterol., 29: 425-429.

- Odenbreit, S.; Wieland, B. and Haas, R. (1996):** Cloning and genetic characterization of *Helicobacter pylori* catalase and construction of a catalase deficient mutant strain. J. Bacteriol., 178: 6960-6967.
- Oderda, G.; Vaira, D. and Halton, J. (1991):** *Helicobacter pylori* in children with peptic ulcer and their families. Dig. Dis. Sci., 36:572.
- Oderda, G.; Rapa, A.; Ronchi, B.; Lerro, P.; Pastore, M. and Stalano, A. (2000):** Detection of *Helicobacter pylori* in stool specimens by non-invasive antigen enzyme immunoassay in children: Multicentre Italian study. BMJ., 320: 347-348.
- Ogata, S. K.; Kawakami, E.; Patricio, F. R.; Pedroso, M. Z. and Santos, A. M. (2001):** Evaluation of invasive and non-invasive methods for the diagnosis of *Helicobacter pylori* infection in symptomatic children and adolescents. Sao Paulo Med. J., 119 (2): 67-71.
- Ohkura, R.; Miwa, H.; Murai, T.; Nagahara, A.; Ohta, K. and Sato, K. (2000):** Usefulness of a novel enzyme immunoassay for the detection of *Helicobacter pylori* in faeces. Scand. J. Gastroenterol., 35: 49-53.
- Opaviski, N.; Spuran, M.; Djukie, S.; Mijac, V. and Ranin, L. (2007):** Comparison of three diagnostic methods to confirm *Helicobacter pylori* infection. Srp. Arh. Celok. Lek., 135 (1-2): 26-30.
- Osaki, T.; Yamaguchi, H.; Taguchi, H.; Fukuda, M.; Kawakami, H.; Hirano, H.; Watanabe, S.; Takagi, A. and Kamiya, S. (1998):** Division of Flow Cytometry, Kyorin University School of

Medicine, Shinkawa, Mitaka, Tokyo, Japan. Establishment and characterization of a monoclonal antibody to inhibit adhesion of *Helicobacter pylori* to gastric epithelial cells. J. Med. Microbiol. Jun., 47(6): 505-12.

Oshowo, A.; Gillam, D.; Botha, A.; Tunio, M.; Holton, J.; Boulos, P. and Hobsley, M. (1998): *Helicobacter pylori*: The mouth, stomach, and gut axis. Ann Periodontol., 3(1): 276-80.

Owen, J. R. (1989): Taxonomy of *Campylobacter pylori* quoted from Rathbone B. J. and Healthy R. V., eds. *Campylobacter pylori* and gastroduodenal diseases.

Owen, J. R. (1995): Bacteriology of *Helicobacter pylori*. Baillie Clin. Gastroenterol., 9: 415-446.

Ozcakir, O.; Yonem, O.; Demir, H.; Altinbas, A.; Altinok, G.; Orhan, D.; Uner, A. and Akyon, Y. (2008): Comparison of three methods: Culture, Real-time PCR and Fluorescent in situ hybridization in detecting of *Helicobacter pylori*. Molecular detection of bacterial species., 12: 30-13.

Pandya, H. B.; Patel, J. S.; Sodagar, N. R.; Singh, N. R.; Salvi, P. N.; Patel, S. B.; Naik, K. B. and Agravat, H. H. (2009): Comparison of invasive tests with serology to diagnose *Helicobacter pylori* infections in symptomatic patients. Journal of Cell and Tissue Research., 9 (3): 2019-2022.

Parsonnet, J.; Friedman, G. D.; Vandersteen, D. P. and Sibley, R. K. (1991): *Helicobacter* infection and the risk of gastric carcinoma. N. Engl. J. Med., 325: 1127-1131.

Parsonnet, J.; Hansen, S.; Rodriguez, L.; Gelb, A.; Warnke, R.; Jellum, E.; Orentreich, N.; Vogelman, J. and Friedman, G. (1994):

Helicobacter pylori infection and gastric lymphoma. N. Engl. J. Med., 330 (18): 1267–71.

Parsonnet, J.; Shmuely, H. and Haggerty, T. (1999): Faecal and oral shedding of *Helicobacter pylori* from healthy infected adults. JAMA, 282: 2240-45.

Perez-Perez, G. I.; Rothenbacher, D. and Brenner, H. (2004): Epidemiology of *Helicobacter pylori* infection. *Helicobacter*, 9(1): 1-6.

Petrovic, M.; Artiko, V.; Novosel, S.; Ille, T.; Sobic-Saranvic, D.; Pavlovic, S.; Jaksic, E.; Stojkovic, M.; Antic, A. and Obradovic, V. (2011): Relationship between *Helicobacter pylori* infection estimated by ¹⁴C-Urea breath test gender, blood groups and Rhesus factor. Hell J. Nucl. Med., 14(1): 21-24.

Phadnis, S. H.; Parlow, M. H.; Levy, M. and Dunn, B. E. (1996): Surface localization of *Helicobacter pylori* urease and a heat shock protein homology requires bacterial autolysis. Infect. Immuno., 64: 905-912.

Polish, L. B.; Douglas, J. M.; Davidson, A. J. and Blaser, M. J. (1991): Characterization of risk factors for *Helicobacter pylori* infection among men attending a sexually transmitted disease clinic., lack of evidence for sexual transmission. J. Clin. Microbiol., 29: 2139-2143.

- Poms, R. E. and Tatini, S. R. (2001):** Survival of *Helicobacter pylori* in ready-to-eat foods at 4 degrees C. Int. J. Food Microbiol., 63(3): 281-286.
- Poon, S.; Chang, C. S.; Su, J.; Lai, C. H.; Yang, C. C.; Chen, G. H. and Wang, W. C. (2002):** Primary resistance to antibiotics and its clinical impact on the efficacy of *Helicobacter pylori* lansoprazole-based triple therapeutics. Aliment. Pharmacol. Ther., 16 (2): 291-296.
- Queralt, N.; Bartolome, R. and Araujo, R. (2005):** Detection of *Helicobacter pylori* DNA in human faeces and water with different levels of faecal pollution in the north-east of Spain. J. Appl. Microbiol., 98(4): 889-895.
- Rajuet, G. S.; Smith, M. J.; Morton, D. and Bardhan, K. D. (1994):** Mini-dose (1-Ci) ¹⁴C-urea breath test for the detection of *Helicobacter pylori*. Am. J. Gastroenterol., 89: 1027-1031.
- Ramphal, R. and Pyle, M. (1985):** Further characterization of the tracheal receptor for *Pseudomonas aeruginosa*. Eur. J. Clin. Microbiol., 4: 160–162.
- Rasko, D. A.; Wang, G.; Palcic, M. M. and Taylor, D. E. (2000):** Cloning and characterization of the (1,3/4) fucosyltransferase of *Helicobacter pylori*. J. Biol. Chem., 275: 4988-4994.
- Rathbone, B. J.; Wayatt, J. I. and Heatley, R. V. (1989):** Immunological aspects of *Campylobacter pylori* infection. Eur. J. gastroenterol. Hepatol., 1: 13-16.

- Rautelin, H. and Kosunen, T. U. (2004):** *H. pylori* infection in Finland. Ann. Med., 36 (2): 82-8.
- Rauws, E. A.; Langenberg, W.; Houthoff, H. J.; Zanen, H. C. and Tytgat, G. N. (1988):** *Campylobacter pyloridis* associated chronic active antral gastritis. Gastroenterol., 94: 33–40.
- Rektorschek, M.; Buhmann, A.; Weeks, D.; Schwan, D.; Bensch, K. W. and Eskandari, S. (2000):** Acid resistance of *Helicobacter pylori* depends on the Urel membrane protein and an inner membrane proton barrier. Mol. Microbiol., 36: 141-152.
- Replogle, M. L.; Glaser, S. L.; Hiatt, R. A. and Parsonnet, J. (1995):** Biologic sex and a risk factor for *Helicobacter pylori* infection in healthy young adults. Am. J. Epidemiol., 142: 856-863.
- Rokkas, T.; Pursey, C. and Uzoechina, E. (1987):** Non-ulcer dyspepsia and short term De-No. 1 therapy: A placebo controlled trial with particular reference to the role of *Campylobacter pylori*. Gut., 29: 1386-1387.
- Romaniuk, P. J.; Doltawaska, B. and Trust, T. J. (1987):** *Campylobacter pylori* the spiral bacterium associated with human gastritis is not a true *Campylobacter* spp. J. Bacteriol., 169: 2137-2141.
- Rothenbacher, D.; Bode, G.; Berg, G.; Knayer, U.; Gonser, T.; Adler, G. and Brenner, H. (1999):** *Helicobacter pylori* among pre-school children and their parents: Evidence of parent-child transmission. J. Infect. Dis., 179: 398-402.
- Ryan, K. J. and Ray, C. G. (2004):** Sherris Medical Microbiology. 4th (ed.). McGraw Hill. pp. 232–3. ISBN 0-8385-8529-9.

- Sahin, F. I.; Tinaz, A. C.; Simsek, I. S.; Menevse, S. and Gorgul, A. (2001):** Detection of *Helicobacter pylori* in dental plaque and gastric biopsy samples of Turkish patients by PCR-RFLP. Acta. Gastroenterol. Belg., 64: 150-2.
- Salmela, K. S.; Roine, R. P.; Koivisto, T.; Höök-Nikanne, J.; Kosunen, T. U. and Salaspuro, M. (1993):** Characteristics of *Helicobacter pylori* alcohol dehydrogenase. Gastroenterology., 105 (2): 325-30.
- Samra, Z.; Shmueli, H.; Niv, Y.; Dinari, G.; Douglas, J. P.; Geler, A.; Gal, E.; Fishman, M.; Bachor, J. and Yahav, J. (2002):** Resistance of *Helicobacter pylori* isolated in Israel to metronidazole, clarithromycin, tetracycline, amoxicillin and cesixime. Journal of Antimicrobial Chemotherapy., 49 (6): 1023-1026.
- Schumman, R.; Rigas, B.; Prada, A. and Minoli, G. (1995):** Diagnosis of *Helicobacter pylori* infection by the Lara system – towards a simplified breath test. Gastroenterology., 108: 215.
- Scott, D. R.; Marcus, E. A.; Weeks, D. L.; Lee, A.; Melchers, K. and Sachs, G. (2000):** Expression of the *Helicobacter pylori* Urel gene is required for acidic pH activation of cytoplasmic urease. Infect. immune., 68: 470-477.
- Shahamet, M.; Mai, U. E. and Paski-Kolva, C. (1991):** Evaluation of liquid media for growth of *H. pylori* J. Clin. Microbiol., 29 (12): 2835-2837.
- Shankaran, K. and Desai, H. G. (1995):** *Helicobacter pylori* in dental plaque. J. Clin. Gastroenterol., 1995; 21: 82-4.

- Sherif, M.; Mohran, Z.; Fathy, H.; Rockabrand, D. M.; Rozmajzl, P. J. and Frenck, R. W. (2004):** Universal high-level primary metronidazole resistance in *Helicobacter pylori* isolated from children in Egypt. J. Clin. Microbiol., 42 (s10): 4832-34.
- Shimizu, T.; Oguchi, S.; Yamashiro, Y.; Segawa, O.; Ohkura, R.; Wakisaka, N. and Yamamoto, T. (1999):** *Helicobacter pylori* transmission between a boy with duodenal ulcer and his father. Pediatr. Infect. Dis., 18: 655-656.
- Siavoshi, F.; Safari, F.; Doratotaj, D.; Khatami, G. R.; Fallahi, G. H. and Mirnaseri, M. M. (2006):** Antimicrobial resistance of *Helicobacter pylori* isolates from Iranian adults and children. Arch. Iranian Med., 9 (4): 308-314.
- Smith, S. I.; Oyedeji, K. S.; Arigbabu, A. O.; Atimomo, C. and Coker, A. O. (2001):** High amoxicillin resistance in *Helicobacter pylori* isolated from gastritis and peptic ulcer patients in Western Nigeria. J. Gastroenterol., 36 (1): 67-68.
- Solan, J. M.; Coreea, J.; Lindeman, J. J.; Meijer, L. M. and Sipponen, P. (1995):** The stomach in Gastrointestinal and Oesophageal pathology Whitehead. Edinburgh, Hon Kong, London, Madrid, Melblourage and New York, pp. 4611-484.
- Soltesz, V.; Zeeberg, B. and Wastorm, T. (1992):** Optimal survival of *Helicobacter pylori* under various transport conditions. Journal of Clinical Pathology, 30(6): 1453.
- Song, Q.; Lange, T.; Spahr, A.; Adler, G. and Bode, G. (2000):** Characteristic distribution pattern of *Helicobacter pylori* in

dental plaque and saliva detected with nested PCR. J. Med. Microbiol., 49: 349-53.

Stenström, B.; Mendis, A. and Marshall, B. J. (2008): The latest in diagnosis and treatment. Aust., Fam., Physician, 37 (8): 608–12.

Steer, H. W. (1984): Surface morphology of the gastroduodenal mucosa in duodenal ulceration. Gut., 25: 1203.

Sydney, Working part report to the world congresses of gastroenterology (1991): *Helicobacter pylori*: Casual agent in peptic ulcer disease, J. Gastroenterol. Hepatol., 6: 103–140.

Taj, Y.; Essa, F.; Kasmi, S. U. and Abdullah, E. (2003): Sensitivity and specificity of various diagnostic tests in the detection of *Helicobacter pylori*. J. Coll. Physicians Surg. Pak., 13 (2): 90-3.

Tally, N. J.; Zinsmeister, A. R.; Weaver, A. and Blaser, M. J. (1991): Gastric adenocarcinoma and *Helicobacter pylori* infection. J. Nat. Cancer Inst., 83: 1734-1739.

Tănăsescu, C.; Ilie M.; Chifiriuc, M. C. and Popa, M. (2011) : Cultures of *Helicobacter pylori* from string tests and gastric biopsies – antibiotic susceptibility tests for cases resistant to triple therapy. Therapeutics, Pharmacology and Clinical Toxicology Vol. XV, Number 3, p. 230-233.

Taylor, D. E.; Hargreaves, J. A. and Ng, T. M. (1987): Isolation and characterization of *Campylobacter pyloridis* from gastric biopsies. Am. J. Clin. Pathol., 87: 49-54.

- Taylor, D. N. and Parsonnet, J. (1995):** Epidemiology and natural history of *Helicobacter pylori* infections, p. 551-564. In *Blaser, M. J.; Smith, P. F.; Ravdin, J.; Greenberg, H. and Guerrant, R. L.* (ed.), *Infections of the gastrointestinal tract*. Raven Press, New York.
- Taylor, P. R.; Mason, R. C. and Filipe, M. I. (1991):** Gastric carcinogenesis in the rat induced by duodenogastric reflux without carcinogens. *Gut.*, 32: 1447.
- Tee, W.; Fairley, S.; Smallwood, R. and Dywer, B. (1991):** Comparative evaluation of three selective media and a non-selective medium for culture of *Helicobacter pylori* from gastric biopsies. *J. Clin. Microbiol.*, 29: 2587-2589.
- Thomas, J. E.; Gibson, G. R.; Darboe, M. K.; Dale, A. and Weaver, L. T. (1992):** Isolation of *Helicobacter pylori* from human faeces. *Lancet.*, 340: 1194-1195.
- Thomas, J. E. (1996):** Culture of *Helicobacter pylori* from faeces. In *Lee, A.; Mégraud, F.* (eds). *Helicobacter: Techniques for clinical diagnosis and basic research*. London /Philadelphian /Toronto /Sydney /Tokyo. WB Saunders Company Limited, 1996: 206-12.
- Thompson, L. M.; Simbert, R. M.; Johnson, J. L. and Krieg, N. (1988):** Phylogenetic of the genus *Campylobacter*. *Int. J. Syst. Bacteriol.*, 38: 190-200.
- Treiber, G.; Witting, J. and Ammon, S. (2002):** Clinical outcome and influencing factors of a new short-term quadruple therapy for

Helicobacter pylori eradication. Arch. Intern. Med., 162 (2): 153-160.

Tsang, K. W.; Rutman, A. ; Tanaka, E. ; Lund, V.; Dewer, A.; Cole, P. J. and Wilson, R. (1994): Interaction of *Pseudomonas aeruginosa* with human respiratory mucosa in vitro. Eur. Respir. J., 7: 1746–1753.

Tsang, K. W.; Rutman, A.; Kanthakumar, K.; Belcher, J.; Lund, V.; Roberts, D. E.; Cole, P. J. and Wilson, R. (1993): *Haemophilus influenzae* infection of human respiratory mucosa in low concentrations of antibiotics. Am. Rev. Respir. Dis., 148: 201–207.

Tsang, K. W.; Hu, W.; Lam, W. K. and Lam, S. K. (1997): A preliminary study of gastrooesophageal reflux in bronchiectasis (abstract). Am. J. Respir. Crit. Care Med., 155: A107.

Tummuru, M. K. R.; Cover, T. L. and Blaser, M. J. (1993): Cloning and expression of a high-molecular-mass major antigen of *Helicobacter pylori*: Evidence of linkage to cytotoxin production. Infect. Immun., 61: 1799-1809.

Tytgat, G. N. (1995): Endoscopic transmission of *Helicobacter pylori*. Aliment Pharmacol. Ther., 9: 105-110.

Vaira, D.; Mallertheiner, P. and Megraud, F. (1999) : Diagnosis of *Helicobacter pylori* infection with a new non-invasive antigen based assay. Lancet., 354: 30-33.

Vaira, D.; Malfer theiner, P.; Megraud, F.; Axon, R. T. A.; Deltenre, M.; Gasbarrini, G.; O'Morian, G.; Pajares, G. M. J.; Quina, M., Tytgat, G. N. and European H. pylori HpSA study group

- (2000): Non-invasive antigen based assay for assessing *H. pylori* eradication: An European multi center study Am. J. Gastroenterol., 94 (4): 925-29.
- Veenendall, R. A.; Lichtendahl-Bernards, A. T. and Pena, A. S. (1993):** Effect of transport medium and transportation time on culture of *Helicobacter pylori* from gastric biopsy specimens. J. Clin. Pathol., 46: 561-563.
- Villako, M. L.; Tytagt, G. N.; Schipper, M. E. I.; Rietra, P. J. and Zanen, H. C. (1990):** *Campylobacter* like organisms in the stomach of patients and healthy individuals. Lancet., 1: 1348.
- Walt, R. P. (1996):** Regression of MALT lymphoma and treatment for *Helicobacter pylori*. Lancet., 348: 1041-1042.
- Warren, J. R. and Marshall, B. J. (1983):** Unidentified curved bacilli on gastric epithelium in active chronic gastritis. Lancet., 1: 1273-1275.
- Westblom, T. U.; Gudipati, S. and Madan, S. (1991):** Improved growth of *H. pylori* using a liquid medium supplemented with human serum. Ital. J. Gastroenterol., 23 (Suppl. 2): 48.
- Westergren, A.; Karlsson, S.; Andersson, P.; Ohlsson, O. and Hallberg, I. R. (2001):** Eating difficulties, need for assisted eating, nutritional status and pressure ulcers in patients admitted for stroke rehabilitation. Journal of Clinical Nursing, 10: 257-269.
- WHO (1994):** Schistosomes, liver flukes and *Helicobacter pylori*. IARC Monogr. Eval. Carcinog. Risks Hum., 61:241.
- Windle, H. J. and Kelleher, D. (1995):** Identification and characterization of a metallo-protease activity from *Helicobacter pylori* which is capable of degrading immunoglobulins. Abstracts, VIIIth

International Workshop on Gastroduodenal pathology and *H. pylori*. Edinburgh, Scotland.

Wirth, H. P.; Yang, M.; Peek, R. M. and Blaser, M. J. (1997): *Helicobacter pylori* Lewis expression is related to the host Lewis phenotype abst. 3, p A-1. In abstracts of the American Gastroenterological Association Annual Meeting.

Wong, K. K.; Chung, P. H.; Lan, L. C.; Lin, S. C. and Tam, P. K. (2005): Trends in the prevalence of *Helicobacter pylori* in symptomatic children in the era of eradication. J. Pediatric Surg., 40 (12): 1844-1847.

Wyatt, J. I. (1989): *Campylobacter pylori*, duodenitis and duodenal ulceration. In: Rathbone, B. J. and Heatly, R. V. (eds) *Campylobacter pylori* and gastroduodenal disease. Blackwell, Oxford, p. 117-124.

Wyatt, J. I.; Rathbone, B. J.; Dixon, M. F.; Heatly, R. V. and Axon, A. T. R. (1991): *Campylobacter pylori* and development of duodenal ulcer. (letter). Lancet., 1:118.

Xia, H. H.; Kalantar, J. S.; Talley, N. J.; Wyatt, J. I.; Adams, S.; Chueng, K. and Mitchell, H. M. (2000): Antral-type mucosa in the gastric incisura, body and fundus (antralization) : A link between *Helicobacter pylori* infection and intestinal metaplasia? Am. J. gastroenterol., 95: 114-121.

Yamaoka, Y. (2008): Molecular Genetics and Cellular Biology. Caister Academic Pr., ISBN 1-904455-31-X.