

7 References

- [1] Grayston, J. T.; Kuo, C. C.; Wang, S. P. und Altman, J. (1986): A new *Chlamydia psittaci* strain, TWAR, isolated in acute respiratory tract infections, *N.Engl.J Med.* (volume 315), issue 3, pp. 161-168.
- [2] Grayston, J. T.; Aldous, M. B.; Easton, A.; Wang, S. P.; Kuo, C. C.; Campbell, L. A. und Altman, J. (1993): Evidence that *Chlamydia pneumoniae* causes pneumonia and bronchitis, *J Infect.Dis* (volume 168), issue 5, pp. 1231-1235. URL: PM:8228356
- [3] Kuo, C. C.; Jackson, L. A.; Campbell, L. A. und Grayston, J. T. (1995): *Chlamydia pneumoniae* (TWAR), *Clin.Microbiol.Rev.* (volume 8), issue 4, pp. 451-461. URL: PM:8665464
- [4] Dalhoff, K. und Maass, M. (1996): *Chlamydia pneumoniae* pneumonia in hospitalized patients. Clinical characteristics and diagnostic value of polymerase chain reaction detection in BAL, *Chest* (volume 110), issue 2, pp. 351-356.
- [5] Hahn, D. L. (1999): *Chlamydia pneumoniae*, asthma, and COPD: what is the evidence?, *Ann.Allergy Asthma Immunol* (volume 83), issue 4, pp. 271-88, 291.
- [6] Sethi, S. und Murphy, T. F. (2001): Bacterial infection in chronic obstructive pulmonary disease in 2000: a state-of-the-art review, *Clin.Microbiol.Rev.* (volume 14), issue 2, pp. 336-363.
- [7] Saikku, P.; Leinonen, M.; Mattila, K.; Ekman, M. R.; Nieminen, M. S.; Makela, P. H.; Huttunen, J. K. und Valtonen, V. (1988): Serological evidence of an association of a novel *Chlamydia*, TWAR, with chronic coronary heart disease and acute myocardial infarction, *Lancet* (volume 2), issue 8618, pp. 983-986. URL: PM:2902492
- [8] Shor, A.; Kuo, C. C. und Patton, D. L. (1992): Detection of *Chlamydia pneumoniae* in coronary arterial fatty streaks and atheromatous plaques, *S.Afr.Med.J* (volume 82), issue 3, pp. 158-161.
- [9] Saikku, P.; Leinonen, M.; Tenkanen, L.; Linnanmaki, E.; Ekman, M. R.; Manninen, V.; Manttari, M.; Frick, M. H. und Huttunen, J. K. (1992): Chronic *Chlamydia pneumoniae* infection as a risk factor for coronary heart disease in the Helsinki Heart Study, *Ann.Intern.Med.* (volume 116), issue 4, pp. 273-278.
- [10] Maass, M.; Bartels, C.; Engel, P. M.; Mamat, U. und Sievers, H. H. (1998): Endovascular presence of viable *Chlamydia pneumoniae* is a common phenomenon in coronary artery disease, *J Am.Coll.Cardiol.* (volume 31), issue 4, pp. 827-832.

-
- [11] Fong, I. W.; Chiu, B.; Viira, E.; Jang, D. und Mahony, J. B. (1999): De Novo induction of atherosclerosis by *Chlamydia pneumoniae* in a rabbit model, *Infect.Immun.* (volume 67), issue 11, pp. 6048-6055.
- [12] Yucesan, C. und Sriram, S. (2001): *Chlamydia pneumoniae* infection of the central nervous system, *Curr.Opin.Neurol.* (volume 14), issue 3, pp. 355-359. URL: PM:11371760
- [13] Stratton, C. W. und Sriram, S. (2003): Association of *Chlamydia pneumoniae* with central nervous system disease, *Microbes.Infect.* (volume 5), issue 13, pp. 1249-1253. URL: PM:14623021
- [14] Kuo, C. C.; Chen, H. H.; Wang, S. P. und Grayston, J. T. (1986): Identification of a new group of *Chlamydia psittaci* strains called TWAR, *J Clin Microbiol* (volume 24), issue 6, pp. 1034-1037. URL: PM:3097063
- [15] Weisburg, W. G.; Hatch, T. P. und Woese, C. R. (1986): Eubacterial origin of chlamydiae, *J Bacteriol.* (volume 167), issue 2, pp. 570-574. URL: PM:3525517
- [16] Pace, N. R. (1997): A molecular view of microbial diversity and the biosphere, *Science* (volume 276), issue 5313, pp. 734-740. URL: PM:9115194
- [17] Everett, K. D.; Bush, R. M. und Andersen, A. A. (1999): Emended description of the order Chlamydiales, proposal of Parachlamydiaceae fam. nov. and Simkaniaceae fam. nov., each containing one monotypic genus, revised taxonomy of the family Chlamydiaceae, including a new genus and five new species, and standards for the identification of organisms, *Int.J Syst.Bacteriol.* (volume 49 Pt 2), pp. 415-440. URL: PM:10319462
- [18] Kalman, S.; Mitchell, W.; Marathe, R.; Lammel, C.; Fan, J.; Hyman, R. W.; Olinger, L.; Grimwood, J.; Davis, R. W. und Stephens, R. S. (1999): Comparative genomes of *Chlamydia pneumoniae* and *C. trachomatis*, *Nat.Genet.* (volume 21), issue 4, pp. 385-389. URL: PM:10192388
- [19] Hatch, T. P. (1999): Development Biology, Stephens, R. S., *Chlamydia: Intracellular Biology, Pathogenesis, and Immunity*, pp. 29-67, ASM Press, Washington, D.C.
- [20] Schachter, J.; Stephens, R. S.; Timms, P.; Kuo, C.; Bavoil, P. M.; Birkelund, S.; Boman, J.; Caldwell, H.; Campbell, L. A.; Chernesky, M.; Christiansen, G.; Clarke, I. N.; Gaydos, C.; Grayston, J. T.; Hackstadt, T.; Hsia, R.; Kaltenboeck, B.; Leinonen, M.; Ocjius, D.; McClarty, G.; Orfila, J.; Peeling, R.; Puolakkainen, M.; Quinn, T. C.; Rank, R. G.; Raulston, J.; Ridgeway, G. L.; Saikku, P.; Stamm, W. E.; Taylor-Robinson, D. T.; Wang, S. P. und Wyrick, P. B. (2001): Radical changes to chlamydial

taxonomy are not necessary just yet, *Int.J Syst.Evol.Microbiol* (volume 51), issue Pt 1, pp. 249, 251-249, 253. URL: PM:11211265

[21] Schachter, J. (1999): *Infection and Disease Epidemiology*, Stephens, R. S., *Chlamydia: Intracellular Biology, Pathogenesis, and Immunity*, pp. 139-170, ASM Press.

[22] Blasi, F.; Tarsia, P.; Arosio, C.; Fagetti, L. und Allegra, L. (1998): Epidemiology of *Chlamydia pneumoniae*, *Clin.Microbiol.Infect.* (volume 4 Suppl 4), pp. S1-S6. URL: PM:11869264

[23] Schachter, J. und Grayston, J. T. (1998): Epidemiology of human chlamydial infections, Stephens, R. S.; Byrne, G. I.; Christiansen, G.; Clarke, I. N.; Grayston, J. T.; Rank, R. G.; Ridgeway, G. L.; Saikku, P.; Schachter, J. und Stamm, W. E., *Chlamydial Infections. Proceedings of the Ninth International Symposium on Human Chlamydial Infection.* pp. 3-10, International Chlamydia Symposium, San Francisco, California.

[24] Dowell, S. F.; Peeling, R. W.; Boman, J.; Carlone, G. M.; Fields, B. S.; Guarner, J.; Hammerschlag, M. R.; Jackson, L. A.; Kuo, C. C.; Maass, M.; Messmer, T. O.; Talkington, D. F.; Tondella, M. L. und Zaki, S. R. (2001): Standardizing *Chlamydia pneumoniae* assays: recommendations from the Centers for Disease Control and Prevention (USA) and the Laboratory Centre for Disease Control (Canada), *Clin Infect.Dis* (volume 33), issue 4, pp. 492-503. URL: PM:11462186

[25] Wang, S. P. und Grayston, J. T. (1970): Immunologic relationship between genital TRIC, lymphogranuloma venereum, and related organisms in a new microtiter indirect immunofluorescence test, *Am J Ophthalmol.* (volume 70), issue 3, pp. 367-374. URL: PM:4915925

[26] Peeling, R. W.; Wang, S. P.; Grayston, J. T.; Blasi, F.; Boman, J.; Clad, A.; Freidank, H.; Gaydos, C. A.; Gnarp, J.; Hagiwara, T.; Jones, R. B.; Orfila, J.; Persson, K.; Puolakkainen, M.; Saikku, P. und Schachter, J. (2000): *Chlamydia pneumoniae* serology: interlaboratory variation in microimmunofluorescence assay results, *J Infect.Dis.* (volume 181 Suppl 3), pp. S426-S429. URL: PM:10839729

[27] Kutlin, A.; Tsumura, N.; Emre, U.; Roblin, P. M. und Hammerschlag, M. R. (1997): Evaluation of *Chlamydia* immunoglobulin M (IgM), IgG, and IgA rELISAs Medac for diagnosis of *Chlamydia pneumoniae* infection, *Clin.Diagn.Lab.Immunol.* (volume 4), issue 2, pp. 213-216. URL: PM:9067658

[28] Peeling, R. W. (1999): Serology for *Chlamydia pneumoniae* (TWAR), Allegra, L. und Blasi, F., *Chlamydia pneumoniae: the lung and the heart*, pp. 33-42, Springer-Verlag Italia, Milano.

-
- [29] Maass, M.; Essig, A.; Marre, R. und Henkel, W. (1993): Growth in serum-free medium improves isolation of *Chlamydia pneumoniae*, *J Clin.Microbiol.* (volume 31), issue 11, pp. 3050-3052. URL: PM:8263198
- [30] Tjhie, J. H.; Roosendaal, R.; MacLaren, D. M. und Vandenbroucke-Grauls, C. M. (1997): Improvement of growth of *Chlamydia pneumoniae* on HEp-2 cells by pre-treatment with polyethylene glycol in combination with additional centrifugation and extension of culture time, *J Clin.Microbiol.* (volume 35), issue 7, pp. 1883-1884. URL: PM:9196215
- [31] Kuo, C. C.; Shor, A.; Campbell, L. A.; Fukushi, H.; Patton, D. L. und Grayston, J. T. (1993): Demonstration of *Chlamydia pneumoniae* in atherosclerotic lesions of coronary arteries, *J Infect.Dis* (volume 167), issue 4, pp. 841-849. URL: PM:8450249
- [32] Gaydos, C. A.; Roblin, P. M.; Hammerschlag, M. R.; Hyman, C. L.; Eiden, J. J.; Schachter, J. und Quinn, T. C. (1994): Diagnostic utility of PCR-enzyme immunoassay, culture, and serology for detection of *Chlamydia pneumoniae* in symptomatic and asymptomatic patients, *J Clin.Microbiol.* (volume 32), issue 4, pp. 903-905. URL: PM:8027341
- [33] Campbell, L. A.; O'Brien, E. R.; Cappuccio, A. L.; Kuo, C. C.; Wang, S. P.; Stewart, D.; Patton, D. L.; Cummings, P. K. und Grayston, J. T. (1995): Detection of *Chlamydia pneumoniae* TWAR in human coronary atherectomy tissues, *J Infect.Dis* (volume 172), issue 2, pp. 585-588. URL: PM:7622912
- [34] Boman, J.; Allard, A.; Persson, K.; Lundborg, M.; Juto, P. und Wadell, G. (1997): Rapid diagnosis of respiratory *Chlamydia pneumoniae* infection by nested touchdown polymerase chain reaction compared with culture and antigen detection by EIA, *J Infect.Dis.* (volume 175), issue 6, pp. 1523-1526. URL: PM:9180199
- [35] Wong, Y. K.; Gallagher, P. J. und Ward, M. E. (1999): *Chlamydia pneumoniae* and atherosclerosis, *Heart.* (volume 81), issue 3, pp. 232-238. URL: PM:10026342
- [36] Kuo, C. C. und Campbell, L. A. (2000): Detection of *Chlamydia pneumoniae* in arterial tissues, *J Infect.Dis.* (volume 181 Suppl 3), pp. S432-S436. URL: PM:10839731
- [37] Roblin, P. M.; Dumornay, W. und Hammerschlag, M. R. (1992): Use of HEp-2 cells for improved isolation and passage of *Chlamydia pneumoniae*, *J Clin Microbiol* (volume 30), issue 8, pp. 1968-1971. URL: PM:1500500
- [38] Wong, K. H.; Skelton, S. K. und Chan, Y. K. (1992): Efficient culture of *Chlamydia pneumoniae* with cell lines derived from the human respiratory tract, *J Clin Microbiol* (volume 30), issue 7, pp. 1625-1630. URL: PM:1629316

-
- [39] Kaukoranta-Tolvanen, S. S.; Laitinen, K.; Saikku, P. und Leinonen, M. (1994): Chlamydia pneumoniae multiplies in human endothelial cells in vitro, *Microb.Pathog.* (volume 16), issue 4, pp. 313-319. URL: PM:7968460
- [40] Godzik, K. L.; O'Brien, E. R.; Wang, S. K. und Kuo, C. C. (1995): In vitro susceptibility of human vascular wall cells to infection with Chlamydia pneumoniae, *J Clin Microbiol* (volume 33), issue 9, pp. 2411-2414. URL: PM:7494038
- [41] Gaydos, C. A.; Summersgill, J. T.; Sahney, N. N.; Ramirez, J. A. und Quinn, T. C. (1996): Replication of Chlamydia pneumoniae in vitro in human macrophages, endothelial cells, and aortic artery smooth muscle cells, *Infect.Immun.* (volume 64), issue 5, pp. 1614-1620. URL: PM:8613369
- [42] Kaukoranta-Tolvanen, S. S.; Teppo, A. M.; Laitinen, K.; Saikku, P.; Linnavuori, K. und Leinonen, M. (1996): Growth of Chlamydia pneumoniae in cultured human peripheral blood mononuclear cells and induction of a cytokine response, *Microb.Pathog.* (volume 21), issue 3, pp. 215-221. URL: PM:8878018
- [43] Redecke, V.; Dalhoff, K.; Bohnet, S.; Braun, J. und Maass, M. (1998): Interaction of Chlamydia pneumoniae and human alveolar macrophages: infection and inflammatory response, *Am.J.Respir.Cell Mol.Biol.* (volume 19), issue 5, pp. 721-727. URL: PM:9806736
- [44] Airene, S.; Surcel, H. M.; Alakarppa, H.; Laitinen, K.; Paavonen, J.; Saikku, P. und Laurila, A. (1999): Chlamydia pneumoniae infection in human monocytes, *Infect.Immun.* (volume 67), issue 3, pp. 1445-1449. URL: PM:10024593
- [45] Quinn, T. C. und Gaydos, C. A. (1999): In vitro infection and pathogenesis of Chlamydia pneumoniae in endovascular cells, *Am Heart.J* (volume 138), issue 5 Pt 2, pp. S507-S511. URL: PM:10539860
- [46] Jahn, H. U.; Krull, M.; Wuppermann, F. N.; Klucken, A. C.; Rosseau, S.; Seybold, J.; Hegemann, J. H.; Jantos, C. A. und Suttorp, N. (2000): Infection and activation of airway epithelial cells by Chlamydia pneumoniae, *J.Infect.Dis.* (volume 182), issue 6, pp. 1678-1687. URL: PM:11069240
- [47] Davis, C. H.; Raulston, J. E. und Wyrick, P. B. (2002): Protein disulfide isomerase, a component of the estrogen receptor complex, is associated with Chlamydia trachomatis serovar E attached to human endometrial epithelial cells, *Infect.Immun.* (volume 70), issue 7, pp. 3413-3418. URL: PM:12065480
- [48] Wuppermann, F. N.; Hegemann, J. H. und Jantos, C. A. (2001): Heparan sulfate-like glycosaminoglycan is a cellular receptor for Chlamydia pneumoniae, *J Infect.Dis* (volume 184), issue 2, pp. 181-187. URL: PM:11424015

-
- [49] Beswick, E. J.; Travelstead, A. und Cooper, M. D. (2003): Comparative studies of glycosaminoglycan involvement in *Chlamydia pneumoniae* and *C. trachomatis* invasion of host cells, *J Infect.Dis* (volume 187), issue 8, pp. 1291-1300. URL: PM:12696009
- [50] Puolakkainen, M.; Kuo, C. C. und Campbell, L. A. (2005): *Chlamydia pneumoniae* uses the mannose 6-phosphate/insulin-like growth factor 2 receptor for infection of endothelial cells, *Infect.Immun.* (volume 73), issue 8, pp. 4620-4625. URL: PM:16040974
- [51] Beatty, W. L.; Morrison, R. P. und Byrne, G. I. (1994): Persistent chlamydiae: from cell culture to a paradigm for chlamydial pathogenesis, *Microbiol Rev* (volume 58), issue 4, pp. 686-699. URL: PM:7854252
- [52] Hackstadt, T.; Fischer, E. R.; Scidmore, M. A.; Rockey, D. D. und Heinzen, R. A. (1997): Origins and functions of the chlamydial inclusion, *Trends Microbiol* (volume 5), issue 7, pp. 288-293. URL: PM:9234512
- [53] Hackstadt, T. (1999): Cell biology, Stephens, R. S., *Chlamydia: Intracellular Biology, Pathogenesis and Immunity.* pp. 101-138, ASM Press, Washington, D.C.
- [54] Coombes, B. K. und Mahony, J. B. (2002): Identification of MEK- and phosphoinositide 3-kinase-dependent signalling as essential events during *Chlamydia pneumoniae* invasion of HEp2 cells, *Cell Microbiol* (volume 4), issue 7, pp. 447-460. URL: PM:12102690
- [55] Moulder, J. W. (1991): Interaction of chlamydiae and host cells in vitro, *Microbiol Rev* (volume 55), issue 1, pp. 143-190. URL: PM:2030670
- [56] Gieffers, J.; Rupp, J.; Gebert, A.; Solbach, W. und Klinger, M. (2004): First-choice antibiotics at subinhibitory concentrations induce persistence of *Chlamydia pneumoniae*, *Antimicrob.Agents Chemother.* (volume 48), issue 4, pp. 1402-1405. URL: PM:15047553
- [57] Hogan, R. J.; Mathews, S. A.; Mukhopadhyay, S.; Summersgill, J. T. und Timms, P. (2004): Chlamydial persistence: beyond the biphasic paradigm, *Infect.Immun.* (volume 72), issue 4, pp. 1843-1855. URL: PM:15039303
- [58] Gieffers, J.; Fullgraf, H.; Jahn, J.; Klinger, M.; Dalhoff, K.; Katus, H. A.; Solbach, W. und Maass, M. (2001): *Chlamydia pneumoniae* infection in circulating human monocytes is refractory to antibiotic treatment, *Circulation* (volume 103), issue 3, pp. 351-356. URL: PM:11157684
- [59] Kutlin, A.; Roblin, P. M. und Hammerschlag, M. R. (1999): In vitro activities of azithromycin and ofloxacin against *Chlamydia pneumoniae* in a continuous-infection

model, *Antimicrob. Agents Chemother.* (volume 43), issue 9, pp. 2268-2272. URL: PM:10471577

[60] Beatty, W. L.; Byrne, G. I. und Morrison, R. P. (1993): Morphologic and antigenic characterization of interferon gamma-mediated persistent *Chlamydia trachomatis* infection in vitro, *Proc Natl Acad Sci U S A* (volume 90), issue 9, pp. 3998-4002. URL: PM:8387206

[61] Byrne, G. I. und Ojcius, D. M. (2004): *Chlamydia* and apoptosis: life and death decisions of an intracellular pathogen, *Nat. Rev. Microbiol.* (volume 2), issue 10, pp. 802-808. URL: PM:15378044

[62] Vandahl, B. B.; Birkelund, S.; Demol, H.; Hoorelbeke, B.; Christiansen, G.; Vandekerckhove, J. und Gevaert, K. (2001): Proteome analysis of the *Chlamydia pneumoniae* elementary body, *Electrophoresis*. (volume 22), issue 6, pp. 1204-1223. URL: PM:11358148

[63] Shaw, A. C.; Gevaert, K.; Demol, H.; Hoorelbeke, B.; Vandekerckhove, J.; Larsen, M. R.; Roepstorff, P.; Holm, A.; Christiansen, G. und Birkelund, S. (2002): Comparative proteome analysis of *Chlamydia trachomatis* serovar A, D and L2, *Proteomics*. (volume 2), issue 2, pp. 164-186. URL: PM:11840563

[64] Stephens, R. S.; Mullenbach, G.; Sanchez-Pescador, R. und Agabian, N. (1986): Sequence analysis of the major outer membrane protein gene from *Chlamydia trachomatis* serovar L2, *J Bacteriol.* (volume 168), issue 3, pp. 1277-1282. URL: PM:2946665

[65] Millman, K. L.; Tavares, S. und Dean, D. (2001): Recombination in the *ompA* gene but not the *omcB* gene of *Chlamydia* contributes to serovar-specific differences in tissue tropism, immune surveillance, and persistence of the organism, *J Bacteriol.* (volume 183), issue 20, pp. 5997-6008. URL: PM:11567000

[66] Campbell, L. A.; Kuo, C. C.; Wang, S. P. und Grayston, J. T. (1990): Serological response to *Chlamydia pneumoniae* infection, *J Clin Microbiol* (volume 28), issue 6, pp. 1261-1264. URL: PM:2380354

[67] Christiansen, G.; Ostergaard, L. und Birkelund, S. (1997): Molecular biology of the *Chlamydia pneumoniae* surface, *Scand. J Infect. Dis Suppl.* (volume 104), pp. 5-10. URL: PM:9259071

[68] Stephens, R. S.; Koshiyama, K.; Lewis, E. und Kubo, A. (2001): Heparin-binding outer membrane protein of *Chlamydiae*, *Mol Microbiol* (volume 40), issue 3, pp. 691-699. URL: PM:11359574

-
- [69] Hesse, L.; Bostock, J.; Dementin, S.; Blanot, D.; Mengin-Lecreulx, D. und Chopra, I. (2003): Functional and biochemical analysis of *Chlamydia trachomatis* MurC, an enzyme displaying UDP-N-acetylmuramate:amino acid ligase activity, *J Bacteriol.* (volume 185), issue 22, pp. 6507-6512. URL: PM:14594822
- [70] McCoy, A. J.; Sandlin, R. C. und Maurelli, A. T. (2003): In vitro and in vivo functional activity of *Chlamydia* MurA, a UDP-N-acetylglucosamine enolpyruvyl transferase involved in peptidoglycan synthesis and fosfomycin resistance, *J Bacteriol.* (volume 185), issue 4, pp. 1218-1228. URL: PM:12562791
- [71] Fox, A.; Rogers, J. C.; Gilbert, J.; Morgan, S.; Davis, C. H.; Knight, S. und Wyrick, P. B. (1990): Muramic acid is not detectable in *Chlamydia psittaci* or *Chlamydia trachomatis* by gas chromatography-mass spectrometry, *Infect.Immun.* (volume 58), issue 3, pp. 835-837. URL: PM:2307520
- [72] Chopra, I.; Storey, C.; Falla, T. J. und Pearce, J. H. (1998): Antibiotics, peptidoglycan synthesis and genomics: the chlamydial anomaly revisited, *Microbiology* (volume 144 (Pt 10)), pp. 2673-2678. URL: PM:9802008
- [73] Moulder, J. W. (1993): Why is *Chlamydia* sensitive to penicillin in the absence of peptidoglycan?, *Infect.Agents Dis* (volume 2), issue 2, pp. 87-99. URL: PM:8162358
- [74] Bavoil, P. M.; Hsia, R. und Ojcius, D. M. (2000): Closing in on *Chlamydia* and its intracellular bag of tricks, *Microbiology* (volume 146 (Pt 11)), pp. 2723-2731. URL: PM:11065351
- [75] Bulut, Y.; Faure, E.; Thomas, L.; Karahashi, H.; Michelsen, K. S.; Equils, O.; Morrison, S. G.; Morrison, R. P. und Arditi, M. (2002): Chlamydial heat shock protein 60 activates macrophages and endothelial cells through Toll-like receptor 4 and MD2 in a MyD88-dependent pathway, *J Immunol* (volume 168), issue 3, pp. 1435-1440. URL: PM:11801686
- [76] Kol, A.; Sukhova, G. K.; Lichtman, A. H. und Libby, P. (1998): Chlamydial heat shock protein 60 localizes in human atheroma and regulates macrophage tumor necrosis factor-alpha and matrix metalloproteinase expression, *Circulation* (volume 98), issue 4, pp. 300-307. URL: PM:9711934
- [77] Netea, M. G.; Kullberg, B. J.; Galama, J. M.; Stalenhoef, A. F.; Dinarello, C. A. und Van der Meer, J. W. (2002): Non-LPS components of *Chlamydia pneumoniae* stimulate cytokine production through Toll-like receptor 2-dependent pathways, *Eur J Immunol* (volume 32), issue 4, pp. 1188-1195. URL: PM:11932927

-
- [78] Beatty, W. L.; Morrison, R. P. und Byrne, G. I. (1995): Reactivation of persistent *Chlamydia trachomatis* infection in cell culture, *Infect.Immun.* (volume 63), issue 1, pp. 199-205. URL: PM:7806358
- [79] Sasu, S.; LaVerda, D.; Qureshi, N.; Golenbock, D. T. und Beasley, D. (2001): *Chlamydia pneumoniae* and chlamydial heat shock protein 60 stimulate proliferation of human vascular smooth muscle cells via toll-like receptor 4 and p44/p42 mitogen-activated protein kinase activation, *Circ.Res* (volume 89), issue 3, pp. 244-250. URL: PM:11485974
- [80] Morrison, R. P.; Belland, R. J.; Lyng, K. und Caldwell, H. D. (1989): Chlamydial disease pathogenesis. The 57-kD chlamydial hypersensitivity antigen is a stress response protein, *J Exp.Med* (volume 170), issue 4, pp. 1271-1283. URL: PM:2571668
- [81] Wagar, E. A.; Schachter, J.; Bavoil, P. und Stephens, R. S. (1990): Differential human serologic response to two 60,000 molecular weight *Chlamydia trachomatis* antigens, *J Infect.Dis* (volume 162), issue 4, pp. 922-927. URL: PM:2205652
- [82] Patton, D. L.; Sweeney, Y. T. und Kuo, C. C. (1994): Demonstration of delayed hypersensitivity in *Chlamydia trachomatis* salpingitis in monkeys: a pathogenic mechanism of tubal damage, *J Infect.Dis* (volume 169), issue 3, pp. 680-683. URL: PM:8158051
- [83] Costa, C. P.; Kirschning, C. J.; Busch, D.; Durr, S.; Jennen, L.; Heinzmann, U.; Prebeck, S.; Wagner, H. und Miethke, T. (2002): Role of chlamydial heat shock protein 60 in the stimulation of innate immune cells by *Chlamydia pneumoniae*, *Eur J Immunol* (volume 32), issue 9, pp. 2460-2470. URL: PM:12207330
- [84] Da Costa, C. U.; Wantia, N.; Kirschning, C. J.; Busch, D. H.; Rodriguez, N.; Wagner, H. und Miethke, T. (2004): Heat shock protein 60 from *Chlamydia pneumoniae* elicits an unusual set of inflammatory responses via Toll-like receptor 2 and 4 in vivo, *Eur J Immunol* (volume 34), issue 10, pp. 2874-2884. URL: PM:15368304
- [85] Huittinen, T.; Hahn, D.; Anttila, T.; Wahlstrom, E.; Saikku, P. und Leinonen, M. (2001): Host immune response to *Chlamydia pneumoniae* heat shock protein 60 is associated with asthma, *Eur Respir J* (volume 17), issue 6, pp. 1078-1082. URL: PM:11491147
- [86] Savykoski, T.; Harju, T.; Paldanius, M.; Kuitunen, H.; Bloigu, A.; Wahlstrom, E.; Ryttila, P.; Kinnula, V.; Saikku, P. und Leinonen, M. (2004): *Chlamydia pneumoniae* infection and inflammation in adults with asthma, *Respiration* (volume 71), issue 2, pp. 120-125. URL: PM:15031565

-
- [87] Zugel, U. und Kaufmann, S. H. (1999): Role of heat shock proteins in protection from and pathogenesis of infectious diseases, *Clin Microbiol Rev* (volume 12), issue 1, pp. 19-39. URL: PM:9880473
- [88] Bachmaier, K.; Neu, N.; de la Maza, L. M.; Pal, S.; Hessel, A. und Penninger, J. M. (1999): Chlamydia infections and heart disease linked through antigenic mimicry, *Science* (volume 283), issue 5406, pp. 1335-1339. URL: PM:10037605
- [89] Schett, G.; Xu, Q.; Amberger, A.; van der, Zee R.; Recheis, H.; Willeit, J. und Wick, G. (1995): Autoantibodies against heat shock protein 60 mediate endothelial cytotoxicity, *J Clin Invest* (volume 96), issue 6, pp. 2569-2577. URL: PM:8675620
- [90] Peterson, E. M.; de la Maza, L. M.; Brade, L. und Brade, H. (1998): Characterization of a neutralizing monoclonal antibody directed at the lipopolysaccharide of *Chlamydia pneumoniae*, *Infect.Immun.* (volume 66), issue 8, pp. 3848-3855. URL: PM:9673271
- [91] Brade, L.; Nano, F. E.; Schlecht, S.; Schramek, S. und Brade, H. (1987): Antigenic and immunogenic properties of recombinants from *Salmonella typhimurium* and *Salmonella minnesota* rough mutants expressing in their lipopolysaccharide a genus-specific chlamydial epitope, *Infect.Immun.* (volume 55), issue 2, pp. 482-486. URL: PM:2433222
- [92] Belunis, C. J.; Mdluli, K. E.; Raetz, C. R. und Nano, F. E. (1992): A novel 3-deoxy-D-manno-octulosonic acid transferase from *Chlamydia trachomatis* required for expression of the genus-specific epitope, *J Biol Chem.* (volume 267), issue 26, pp. 18702-18707. URL: PM:1382060
- [93] Lobau, S.; Mamat, U.; Brabetz, W. und Brade, H. (1995): Molecular cloning, sequence analysis, and functional characterization of the lipopolysaccharide biosynthetic gene *kdtA* encoding 3-deoxy- α -D-manno-octulosonic acid transferase of *Chlamydia pneumoniae* strain TW-183, *Mol Microbiol.* (volume 18), issue 3, pp. 391-399. URL: PM:8748024
- [94] Ivins, B. E. und Wyrick, P. B. (1978): Response of C3H/HeJ and C3H/HeN mice and their peritoneal macrophages to the toxicity of *Chlamydia psittaci* elementary bodies, *Infect.Immun.* (volume 22), issue 2, pp. 620-622. URL: PM:730377
- [95] Ingalls, R. R.; Rice, P. A.; Qureshi, N.; Takayama, K.; Lin, J. S. und Golenbock, D. T. (1995): The inflammatory cytokine response to *Chlamydia trachomatis* infection is endotoxin mediated, *Infect.Immun.* (volume 63), issue 8, pp. 3125-3130. URL: PM:7542638

-
- [96] Kuo, C. C. und Chi, E. Y. (1987): Ultrastructural study of *Chlamydia trachomatis* surface antigens by immunogold staining with monoclonal antibodies, *Infect.Immun.* (volume 55), issue 5, pp. 1324-1328. URL: PM:2437035
- [97] Collett, B. A.; Newhall, W. J.; Jersild, R. A., Jr. und Jones, R. B. (1989): Detection of surface-exposed epitopes on *Chlamydia trachomatis* by immune electron microscopy, *J Gen.Microbiol* (volume 135), issue 1, pp. 85-94. URL: PM:2476526
- [98] Birkelund, S.; Lundemose, A. G. und Christiansen, G. (1989): Immunoelectron microscopy of lipopolysaccharide in *Chlamydia trachomatis*, *Infect.Immun.* (volume 57), issue 10, pp. 3250-3253. URL: PM:2777384
- [99] Richmond, S. J. und Stirling, P. (1981): Localization of chlamydial group Antigen in McCoy cell monolayers infected with *Chlamydia trachomatis* or *Chlamydia psittaci*, *Infect.Immun.* (volume 34), issue 2, pp. 561-570. URL: PM:7309240
- [100] Karimi, S. T.; Schloemer, R. H. und Wilde, C. E., III (1989): Accumulation of chlamydial lipopolysaccharide antigen in the plasma membranes of infected cells, *Infect.Immun.* (volume 57), issue 6, pp. 1780-1785. URL: PM:2470679
- [101] Campbell, S.; Richmond, S. J.; Yates, P. S. und Storey, C. C. (1994): Lipopolysaccharide in cells infected by *Chlamydia trachomatis*, *Microbiology* (volume 140 (Pt 8)), pp. 1995-2002. URL: PM:7921250
- [102] Kalayoglu, M. V. und Byrne, G. I. (1998): A *Chlamydia pneumoniae* component that induces macrophage foam cell formation is chlamydial lipopolysaccharide, *Infect.Immun.* (volume 66), issue 11, pp. 5067-5072. URL: PM:9784505
- [103] Zhong, G.; Fan, P.; Ji, H.; Dong, F. und Huang, Y. (2001): Identification of a chlamydial protease-like activity factor responsible for the degradation of host transcription factors, *J Exp.Med.* (volume 193), issue 8, pp. 935-942. URL: PM:11304554
- [104] Shaw, A. C.; Vandahl, B. B.; Larsen, M. R.; Roepstorff, P.; Gevaert, K.; Vandekerckhove, J.; Christiansen, G. und Birkelund, S. (2002): Characterization of a secreted *Chlamydia* protease, *Cell Microbiol.* (volume 4), issue 7, pp. 411-424. URL: PM:12102687
- [105] Dong, F.; Zhong, Y.; Arulanandam, B. und Zhong, G. (2005): Production of a proteolytically active protein, chlamydial protease/proteasome-like activity factor, by five different *Chlamydia* species, *Infect.Immun.* (volume 73), issue 3, pp. 1868-1872. URL: PM:15731091
- [106] Heuer, D.; Brinkmann, V.; Meyer, T. F. und Szczepek, A. J. (2003): Expression and translocation of chlamydial protease during acute and persistent infection of the

epithelial HEp-2 cells with *Chlamydia pneumoniae*, *Cell Microbiol.* (volume 5), issue 5, pp. 315-322. URL: PM:12713490

[107] Sharma, J.; Bosnic, A. M.; Piper, J. M. und Zhong, G. (2004): Human antibody responses to a *Chlamydia*-secreted protease factor, *Infect.Immun.* (volume 72), issue 12, pp. 7164-7171. URL: PM:15557641

[108] Sharma, J.; Dong, F.; Pirbhai, M. und Zhong, G. (2005): Inhibition of proteolytic activity of a chlamydial proteasome/protease-like activity factor by antibodies from humans infected with *Chlamydia trachomatis*, *Infect.Immun.* (volume 73), issue 7, pp. 4414-4419. URL: PM:15972540

[109] Hsia, R. C.; Pannekoek, Y.; Ingerowski, E. und Bavoil, P. M. (1997): Type III secretion genes identify a putative virulence locus of *Chlamydia*, *Mol Microbiol* (volume 25), issue 2, pp. 351-359. URL: PM:9282747

[110] Matsumoto, A. (1981): Electron microscopic observations of surface projections and related intracellular structures of *Chlamydia* organisms, *J Electron Microsc.*(Tokyo.) (volume 30), issue 4, pp. 315-320. URL: PM:6177811

[111] Nichols, B. A.; Setzer, P. Y.; Pang, F. und Dawson, C. R. (1985): New view of the surface projections of *Chlamydia trachomatis*, *J Bacteriol.* (volume 164), issue 1, pp. 344-349. URL: PM:3900041

[112] Hueck, C. J. (1998): Type III protein secretion systems in bacterial pathogens of animals and plants, *Microbiol Mol Biol Rev* (volume 62), issue 2, pp. 379-433. URL: PM:9618447

[113] Slepentin, A.; Motin, V.; de la Maza, L. M. und Peterson, E. M. (2003): Temporal expression of type III secretion genes of *Chlamydia pneumoniae*, *Infect.Immun.* (volume 71), issue 5, pp. 2555-2562. URL: PM:12704128

[114] Lim, W. S.; Macfarlane, J. T.; Boswell, T. C.; Harrison, T. G.; Rose, D.; Leinonen, M. und Saikku, P. (2001): Study of community acquired pneumonia aetiology (SCAPA) in adults admitted to hospital: implications for management guidelines, *Thorax.* (volume 56), issue 4, pp. 296-301. URL: PM:11254821

[115] Luna, C. M.; Famiglietti, A.; Absi, R.; Videla, A. J.; Nogueira, F. J.; Fuenzalida, A. D. und Gene, R. J. (2000): Community-acquired pneumonia: etiology, epidemiology, and outcome at a teaching hospital in Argentina, *Chest.* (volume 118), issue 5, pp. 1344-1354. URL: PM:11083685

[116] Ruiz, M.; Ewig, S.; Marcos, M. A.; Martinez, J. A.; Arancibia, F.; Mensa, J. und Torres, A. (1999): Etiology of community-acquired pneumonia: impact of age, comor-

-
- bility, and severity, *Am J Respir.Crit.Care Med.* (volume 160), issue 2, pp. 397-405. URL: PM:10430704
- [117] Wattanathum, A.; Chaoprasong, C.; Nunthapisud, P.; Chantaratchada, S.; Limpairojn, N.; Jatakanon, A. und Chanthadisai, N. (2003): Community-acquired pneumonia in southeast Asia: the microbial differences between ambulatory and hospitalized patients, *Chest.* (volume 123), issue 5, pp. 1512-1519. URL: PM:12740268
- [118] Welte, T.; Suttorp, N. und Marre, R. (2004): CAPNETZ-community-acquired pneumonia competence network, *Infection.* (volume 32), issue 4, pp. 234-238. URL: PM:15293080
- [119] Biscione, G. L.; Corne, J.; Chauhan, A. J. und Johnston, S. L. (2004): Increased frequency of detection of *Chlamydia pneumoniae* in asthma, *Eur Respir J* (volume 24), issue 5, pp. 745-749. URL: PM:15516667
- [120] Johnston, S. L. und Martin, R. J. (2005): *Chlamydia pneumoniae* and *Mycoplasma pneumoniae*: a Role in Asthma Pathogenesis?, *Am J Respir Crit Care Med.* URL: PM:15961690
- [121] Webley, W. C.; Salva, P. S.; Andrzejewski, C.; Cirino, F.; West, C. A.; Tilahun, Y. und Stuart, E. S. (2005): The bronchial lavage of pediatric patients with asthma contains infectious *Chlamydia*, *Am J Respir Crit Care Med* (volume 171), issue 10, pp. 1083-1088. URL: PM:15735056
- [122] Wu, L.; Skinner, S. J.; Lambie, N.; Vuletic, J. C.; Blasi, F. und Black, P. N. (2000): Immunohistochemical staining for *Chlamydia pneumoniae* is increased in lung tissue from subjects with chronic obstructive pulmonary disease, *Am J Respir Crit Care Med* (volume 162), issue 3 Pt 1, pp. 1148-1151. URL: PM:10988144
- [123] Blasi, F.; Damato, S.; Cosentini, R.; Tarsia, P.; Raccanelli, R.; Centanni, S. und Allegra, L. (2002): *Chlamydia pneumoniae* and chronic bronchitis: association with severity and bacterial clearance following treatment, *Thorax* (volume 57), issue 8, pp. 672-676. URL: PM:12149525
- [124] Branden, E.; Koyi, H.; Gnarpe, J.; Gnarpe, H. und Tornling, G. (2005): Chronic *Chlamydia pneumoniae* infection is a risk factor for the development of COPD, *Respir Med* (volume 99), issue 1, pp. 20-26. URL: PM:15672844
- [125] Kocazeybek, B. (2003): Chronic *Chlamydia pneumoniae* infection in lung cancer, a risk factor: a case-control study, *J Med.Microbiol.* (volume 52), issue Pt 8, pp. 721-726. URL: PM:12867569
- [126] Littman, A. J.; White, E.; Jackson, L. A.; Thornquist, M. D.; Gaydos, C. A.; Goodman, G. E. und Vaughan, T. L. (2004): *Chlamydia pneumoniae* infection and risk

-
- of lung cancer, *Cancer Epidemiol.Biomarkers.Prev.* (volume 13), issue 10, pp. 1624-1630. URL: PM:15466979
- [127] Yang, Z. P.; Kuo, C. C. und Grayston, J. T. (1993): A mouse model of *Chlamydia pneumoniae* strain TWAR pneumonitis, *Infect.Immun.* (volume 61), issue 5, pp. 2037-2040. URL: PM:8478091
- [128] Yang, Z. P.; Cummings, P. K.; Patton, D. L. und Kuo, C. C. (1994): Ultrastructural lung pathology of experimental *Chlamydia pneumoniae* pneumonitis in mice, *J.Infect.Dis.* (volume 170), issue 2, pp. 464-467. URL: PM:8035039
- [129] Alakarppa, H.; Surcel, H. M.; Laitinen, K.; Juvonen, T.; Saikku, P. und Laurila, A. (1999): Detection of *Chlamydia pneumoniae* by colorimetric in situ hybridization, *AP-MIS* (volume 107), issue 4, pp. 451-454. URL: PM:10230702
- [130] Rupp, J.; Koch, M.; van Zandbergen, G.; Solbach, W.; Brandt, E. und Maass, M. (2005): Transmission of *Chlamydia pneumoniae* infection from blood monocytes to vascular cells in a novel transendothelial migration model, *FEMS Microbiol.Lett.* (volume 242), issue 2, pp. 203-208. URL: PM:15621438
- [131] Moazed, T. C.; Kuo, C. C.; Grayston, J. T. und Campbell, L. A. (1998): Evidence of systemic dissemination of *Chlamydia pneumoniae* via macrophages in the mouse, *J Infect.Dis.* (volume 177), issue 5, pp. 1322-1325. URL: PM:9593019
- [132] Gieffers, J.; van Zandbergen, G.; Rupp, J.; Sayk, F.; Kruger, S.; Ehlers, S.; Solbach, W. und Maass, M. (2004): Phagocytes transmit *Chlamydia pneumoniae* from the lungs to the vasculature, *Eur.Respir.J* (volume 23), issue 4, pp. 506-510. URL: PM:15083745
- [133] Barnes, P. J. (1994): Cytokines as mediators of chronic asthma, *Am.J.Respir.Crit Care Med.* (volume 150), issue 5 Pt 2, pp. S42-S49. URL: PM:7952591
- [134] Ford-Hutchinson, A. W. (1990): Leukotriene B4 in inflammation, *Crit Rev.Immunol.* (volume 10), issue 1, pp. 1-12. URL: PM:2155000
- [135] Henderson, W. R., Jr. (1987): Eicosanoids and lung inflammation, *Am.Rev.Respir.Dis.* (volume 135), issue 5, pp. 1176-1185. URL: PM:3107445
- [136] Levine, S. J. (1995): Bronchial epithelial cell-cytokine interactions in airway inflammation, *J.Investig.Med.* (volume 43), issue 3, pp. 241-249. URL: PM:7614070
- [137] Cromwell, O.; Hamid, Q.; Corrigan, C. J.; Barkans, J.; Meng, Q.; Collins, P. D. und Kay, A. B. (1992): Expression and generation of interleukin-8, IL-6 and granulocyte-macrophage colony-stimulating factor by bronchial epithelial cells and en-

hancement by IL-1 beta and tumour necrosis factor-alpha, *Immunology* (volume 77), issue 3, pp. 330-337. URL: PM:1478679

[138] Holtzman, M. J. (1992): Arachidonic acid metabolism in airway epithelial cells, *Annu.Rev.Physiol* (volume 54), pp. 303-329. URL: PM:1562177

[139] Nakamura, H.; Yoshimura, K.; Jaffe, H. A. und Crystal, R. G. (1991): Interleukin-8 gene expression in human bronchial epithelial cells, *J.Biol.Chem.* (volume 266), issue 29, pp. 19611-19617. URL: PM:1918068

[140] Shaul, P. W.; North, A. J.; Wu, L. C.; Wells, L. B.; Brannon, T. S.; Lau, K. S.; Michel, T.; Margraf, L. R. und Star, R. A. (1994): Endothelial nitric oxide synthase is expressed in cultured human bronchiolar epithelium, *J.Clin.Invest* (volume 94), issue 6, pp. 2231-2236. URL: PM:7527428

[141] Widdicombe, J. H.; Ueki, I. F.; Emery, D.; Margolskee, D.; Yergey, J. und Nadel, J. A. (1989): Release of cyclooxygenase products from primary cultures of tracheal epithelia of dog and human, *Am.J.Physiol* (volume 257), issue 6 Pt 1, pp. L361-L365. URL: PM:2514604

[142] Yang, J.; Hooper, W. C.; Phillips, D. J.; Tondella, M. L. und Talkington, D. F. (2003): Induction of proinflammatory cytokines in human lung epithelial cells during *Chlamydia pneumoniae* infection, *Infect.Immun.* (volume 71), issue 2, pp. 614-620. URL: PM:12540537

[143] Mitchell, J. A.; Belvisi, M. G.; Akarasereenont, P.; Robbins, R. A.; Kwon, O. J.; Croxtall, J.; Barnes, P. J. und Vane, J. R. (1994): Induction of cyclo-oxygenase-2 by cytokines in human pulmonary epithelial cells: regulation by dexamethasone, *Br.J.Pharmacol.* (volume 113), issue 3, pp. 1008-1014. URL: PM:7858842

[144] Watkins, D. N.; Peroni, D. J.; Lenzo, J. C.; Knight, D. A.; Garlepp, M. J. und Thompson, P. J. (1999): Expression and localization of COX-2 in human airways and cultured airway epithelial cells, *Eur.Respir.J.* (volume 13), issue 5, pp. 999-1007. URL: PM:10414396

[145] Penttila, J. M.; Anttila, M.; Puolakkainen, M.; Laurila, A.; Varkila, K.; Sarvas, M.; Makela, P. H. und Rautonen, N. (1998): Local immune responses to *Chlamydia pneumoniae* in the lungs of BALB/c mice during primary infection and reinfection, *Infect.Immun.* (volume 66), issue 11, pp. 5113-5118. URL: PM:9784511

[146] Rottenberg, M. E.; Gigliotti, Rothfuchs A.; Gigliotti, D.; Ceausu, M.; Une, C.; Levitsky, V. und Wigzell, H. (2000): Regulation and role of IFN-gamma in the innate resistance to infection with *Chlamydia pneumoniae*, *J Immunol* (volume 164), issue 9, pp. 4812-4818. URL: PM:10779789

-
- [147] Geng, Y.; Berencsi, K.; Gyulai, Z.; Valyi-Nagy, T.; Gonczol, E. und Trinchieri, G. (2000): Roles of interleukin-12 and gamma interferon in murine *Chlamydia pneumoniae* infection, *Infect.Immun.* (volume 68), issue 4, pp. 2245-2253. URL: PM:10722626
- [148] Naiki, Y.; Michelsen, K. S.; Schroder, N. W.; Alsabeh, R.; Slepkin, A.; Zhang, W.; Chen, S.; Wei, B.; Bulut, Y.; Wong, M. H.; Peterson, E. M. und Arditi, M. (2005): MyD88 is pivotal for the early inflammatory response and subsequent bacterial clearance and survival in a mouse model of *Chlamydia pneumoniae* pneumonia, *J.Biol.Chem.* (volume 280), issue 32, pp. 29242-29249. URL: PM:15964841
- [149] Rupp, J.; Koch, M.; van Zandbergen, G.; Solbach, W.; Brandt, E. und Maass, M. (2005): Transmission of *Chlamydia pneumoniae* infection from blood monocytes to vascular cells in a novel transendothelial migration model, *FEMS Microbiol.Lett.* (volume 242), issue 2, pp. 203-208. URL: PM:15621438
- [150] Thom, D. H.; Grayston, J. T.; Siscovick, D. S.; Wang, S. P.; Weiss, N. S. und Daling, J. R. (1992): Association of prior infection with *Chlamydia pneumoniae* and angiographically demonstrated coronary artery disease, *JAMA* (volume 268), issue 1, pp. 68-72. URL: PM:1608116
- [151] Ngeh, J.; Anand, V. und Gupta, S. (2002): *Chlamydia pneumoniae* and atherosclerosis -- what we know and what we don't, *Clin Microbiol Infect.* (volume 8), issue 1, pp. 2-13. URL: PM:11906495
- [152] Elkind, M. S.; Lin, I. F.; Grayston, J. T. und Sacco, R. L. (2000): *Chlamydia pneumoniae* and the risk of first ischemic stroke : The Northern Manhattan Stroke Study, *Stroke* (volume 31), issue 7, pp. 1521-1525. URL: PM:10884447
- [153] Sander, D.; Winbeck, K.; Klingelhofer, J.; Etgen, T. und Conrad, B. (2001): Enhanced progression of early carotid atherosclerosis is related to *Chlamydia pneumoniae* (Taiwan acute respiratory) seropositivity, *Circulation* (volume 103), issue 10, pp. 1390-1395. URL: PM:11245642
- [154] Ramirez, J. A. (1996): Isolation of *Chlamydia pneumoniae* from the coronary artery of a patient with coronary atherosclerosis. The *Chlamydia pneumoniae/Atherosclerosis Study Group*, *Ann Intern Med* (volume 125), issue 12, pp. 979-982. URL: PM:8967709
- [155] Taylor-Robinson, D. und Thomas, B. J. (2000): *Chlamydia pneumoniae* in atherosclerotic tissue, *J Infect.Dis* (volume 181 Suppl 3), pp. S437-S440. URL: PM:10839732

-
- [156] Moazed, T. C.; Kuo, C.; Grayston, J. T. und Campbell, L. A. (1997): Murine models of *Chlamydia pneumoniae* infection and atherosclerosis, *J Infect.Dis* (volume 175), issue 4, pp. 883-890. URL: PM:9086145
- [157] Muhlestein, J. B.; Anderson, J. L.; Hammond, E. H.; Zhao, L.; Trehan, S.; Schwobe, E. P. und Carlquist, J. F. (1998): Infection with *Chlamydia pneumoniae* accelerates the development of atherosclerosis and treatment with azithromycin prevents it in a rabbit model, *Circulation* (volume 97), issue 7, pp. 633-636. URL: PM:9495296
- [158] Muhlestein, J. B. (2000): *Chlamydia pneumoniae*-induced atherosclerosis in a rabbit model, *J Infect.Dis* (volume 181 Suppl 3), pp. S505-S507. URL: PM:10839748
- [159] Blessing, E.; Campbell, L. A.; Rosenfeld, M. E.; Chough, N. und Kuo, C. C. (2001): *Chlamydia pneumoniae* infection accelerates hyperlipidemia induced atherosclerotic lesion development in C57BL/6J mice, *Atherosclerosis* (volume 158), issue 1, pp. 13-17. URL: PM:11500169
- [160] Gurfinkel, E.; Bozovich, G.; Daroca, A.; Beck, E. und Mautner, B. (1997): Randomised trial of roxithromycin in non-Q-wave coronary syndromes: ROXIS Pilot Study. ROXIS Study Group, *Lancet* (volume 350), issue 9075, pp. 404-407. URL: PM:9259655
- [161] Gurfinkel, E. (2000): Inflammation, infection, or both in atherosclerosis: the ROXIS trial in perspective, *J Infect.Dis.* (volume 181 Suppl 3), pp. S566-S568. URL: PM:10839760
- [162] Cercek, B.; Shah, P. K.; Noc, M.; Zahger, D.; Zeymer, U.; Matetzky, S.; Maurer, G. und Mahrer, P. (2003): Effect of short-term treatment with azithromycin on recurrent ischaemic events in patients with acute coronary syndrome in the Azithromycin in Acute Coronary Syndrome (AZACS) trial: a randomised controlled trial, *Lancet* (volume 361), issue 9360, pp. 809-813. URL: PM:12642046
- [163] Anderson, J. L. und Muhlestein, J. B. (2000): The ACADEMIC study in perspective (Azithromycin in coronary artery disease: elimination of myocardial infection with *Chlamydia*), *J.Infect.Dis.* (volume 181 Suppl 3), pp. S569-S571. URL: PM:10839761
- [164] Grayston, J. T. (2003): Antibiotic treatment of atherosclerotic cardiovascular disease, *Circulation* (volume 107), issue 9, pp. 1228-1230. URL: PM:12628937
- [165] Muhlestein, J. B. (2003): Antibiotic treatment of atherosclerosis, *Curr.Opin.Lipidol.* (volume 14), issue 6, pp. 605-614. URL: PM:14624138
- [166] O'Connor, C. M.; Dunne, M. W.; Pfeffer, M. A.; Muhlestein, J. B.; Yao, L.; Gupta, S.; Benner, R. J.; Fisher, M. R. und Cook, T. D. (2003): Azithromycin for the secon-

- dary prevention of coronary heart disease events: the WIZARD study: a randomized controlled trial, *JAMA* (volume 290), issue 11, pp. 1459-1466. URL: PM:13129985
- [167] Gelfand, E. V. und Cannon, C. P. (2004): Antibiotics for secondary prevention of coronary artery disease: an ACES hypothesis but we need to PROVE IT, *Am Heart J* (volume 147), issue 2, pp. 202-209. URL: PM:14760314
- [168] Malinverni, R.; Kuo, C. C.; Campbell, L. A.; Lee, A. und Grayston, J. T. (1995): Effects of two antibiotic regimens on course and persistence of experimental *Chlamydia pneumoniae* TWAR pneumonitis, *Antimicrob.Agents Chemother.* (volume 39), issue 1, pp. 45-49. URL: PM:7695327
- [169] Ross, R. (1999): Atherosclerosis--an inflammatory disease, *N.Engl.J Med* (volume 340), issue 2, pp. 115-126. URL: PM:9887164
- [170] Dechend, R.; Maass, M.; Gieffers, J.; Dietz, R.; Scheidereit, C.; Leutz, A. und Gulba, D. C. (1999): *Chlamydia pneumoniae* infection of vascular smooth muscle and endothelial cells activates NF-kappaB and induces tissue factor and PAI-1 expression: a potential link to accelerated arteriosclerosis, *Circulation* (volume 100), issue 13, pp. 1369-1373. URL: PM:10500035
- [171] Kol, A.; Bourcier, T.; Lichtman, A. H. und Libby, P. (1999): Chlamydial and human heat shock protein 60s activate human vascular endothelium, smooth muscle cells, and macrophages, *J Clin.Invest.* (volume 103), issue 4, pp. 571-577. URL: PM:10021466
- [172] Rodel, J.; Woytas, M.; Groh, A.; Schmidt, K. H.; Hartmann, M.; Lehmann, M. und Straube, E. (2000): Production of basic fibroblast growth factor and interleukin 6 by human smooth muscle cells following infection with *Chlamydia pneumoniae*, *Infect.Immun.* (volume 68), issue 6, pp. 3635-3641. URL: PM:10816522
- [173] Blessing, E.; Kuo, C. C.; Lin, T. M.; Campbell, L. A.; Bea, F.; Chesebro, B. und Rosenfeld, M. E. (2002): Foam cell formation inhibits growth of *Chlamydia pneumoniae* but does not attenuate *Chlamydia pneumoniae*-induced secretion of proinflammatory cytokines, *Circulation* (volume 105), issue 16, pp. 1976-1982. URL: PM:11997286
- [174] Coombes, B. K.; Chiu, B.; Fong, I. W. und Mahony, J. B. (2002): *Chlamydia pneumoniae* infection of endothelial cells induces transcriptional activation of platelet-derived growth factor-B: a potential link to intimal thickening in a rabbit model of atherosclerosis, *J.Infect.Dis.* (volume 185), issue 11, pp. 1621-1630. URL: PM:12023768

-
- [175] Rodel, J.; Prochnau, D.; Prager, K.; Pentcheva, E.; Hartmann, M. und Straube, E. (2003): Increased production of matrix metalloproteinases 1 and 3 by smooth muscle cells upon infection with *Chlamydia pneumoniae*, *FEMS Immunol.Med.Microbiol.* (volume 38), issue 2, pp. 159-164. URL: PM:13129650
- [176] Prochnau, D.; Rodel, J.; Hartmann, M.; Straube, E. und Figulla, H. R. (2004): Growth factor production in human endothelial cells after *Chlamydia pneumoniae* infection, *Int.J.Med.Microbiol.* (volume 294), issue 1, pp. 53-57. URL: PM:15293454
- [177] Kaukoranta-Tolvanen, S. S.; Ronni, T.; Leinonen, M.; Saikku, P. und Laitinen, K. (1996): Expression of adhesion molecules on endothelial cells stimulated by *Chlamydia pneumoniae*, *Microb.Pathog.* (volume 21), issue 5, pp. 407-411. URL: PM:8938646
- [178] Vielma, S. A.; Krings, G. und Lopes-Virella, M. F. (2003): *Chlamydia pneumoniae* induces ICAM-1 expression in human aortic endothelial cells via protein kinase C-dependent activation of nuclear factor-kappaB, *Circ.Res.* (volume 92), issue 10, pp. 1130-1137. URL: PM:12714566
- [179] Kalvegren, H.; Majeed, M. und Bengtsson, T. (2003): *Chlamydia pneumoniae* binds to platelets and triggers P-selectin expression and aggregation: a causal role in cardiovascular disease?, *Arterioscler.Thromb.Vasc.Biol.* (volume 23), issue 9, pp. 1677-1683. URL: PM:12842841
- [180] Vielma, S. A.; Mironova, M.; Ku, J. R. und Lopes-Virella, M. F. (2004): Oxidized LDL further enhances expression of adhesion molecules in *Chlamydia pneumoniae*-infected endothelial cells, *J.Lipid Res.* (volume 45), issue 5, pp. 873-880. URL: PM:14967815
- [181] Coombes, B. K. und Mahony, J. B. (2001): cDNA array analysis of altered gene expression in human endothelial cells in response to *Chlamydia pneumoniae* infection, *Infect.Immun.* (volume 69), issue 3, pp. 1420-1427. URL: PM:11179307
- [182] Virok, D.; Loboda, A.; Kari, L.; Nebozhyn, M.; Chang, C.; Nichols, C.; Endresz, V.; Gonczol, E.; Berencsi, K.; Showe, M. K. und Showe, L. C. (2003): Infection of U937 monocytic cells with *Chlamydia pneumoniae* induces extensive changes in host cell gene expression, *J Infect.Dis.* (volume 188), issue 9, pp. 1310-1321. URL: PM:14593587
- [183] Coombes, B. K. und Mahony, J. B. (1999): *Chlamydia pneumoniae* infection of human endothelial cells induces proliferation of smooth muscle cells via an endothelial cell-derived soluble factor(s), *Infect.Immun.* (volume 67), issue 6, pp. 2909-2915. URL: PM:10338498

- [184] Rupp, J.; Hellwig-Burgel, T.; Wobbe, V.; Seitzer, U.; Brandt, E. und Maass, M. (2005): Chlamydia pneumoniae infection promotes a proliferative phenotype in the vasculature through Egr-1 activation in vitro and in vivo, Proc Natl Acad Sci U S A (volume 102), issue 9, pp. 3447-3452. URL: PM:15722416
- [185] Kalayoglu, M. V.; Hoerneman, B.; LaVerda, D.; Morrison, S. G.; Morrison, R. P. und Byrne, G. I. (1999): Cellular oxidation of low-density lipoprotein by Chlamydia pneumoniae, J Infect.Dis. (volume 180), issue 3, pp. 780-790. URL: PM:10438367
- [186] Kalayoglu, M. V. und Byrne, G. I. (1998): Induction of macrophage foam cell formation by Chlamydia pneumoniae, J Infect.Dis. (volume 177), issue 3, pp. 725-729. URL: PM:9498454
- [187] Bea, F.; Puolakkainen, M. H.; McMillen, T.; Hudson, F. N.; Mackman, N.; Kuo, C. C.; Campbell, L. A. und Rosenfeld, M. E. (2003): Chlamydia pneumoniae induces tissue factor expression in mouse macrophages via activation of Egr-1 and the MEK-ERK1/2 pathway, Circ.Res. (volume 92), issue 4, pp. 394-401. URL: PM:12600889
- [188] Molestina, R. E.; Miller, R. D.; Lentsch, A. B.; Ramirez, J. A. und Summersgill, J. T. (2000): Requirement for NF-kappaB in transcriptional activation of monocyte chemotactic protein 1 by Chlamydia pneumoniae in human endothelial cells, Infect.Immun. (volume 68), issue 7, pp. 4282-4288. URL: PM:10858246
- [189] Donath, B.; Fischer, C.; Page, S.; Prebeck, S.; Jilg, N.; Weber, M.; da Costa, C.; Neumeier, D.; Miethke, T. und Brand, K. (2002): Chlamydia pneumoniae activates IKK/I kappa B-mediated signaling, which is inhibited by 4-HNE and following primary exposure, Atherosclerosis (volume 165), issue 1, pp. 79-88. URL: PM:12208473
- [190] Peters, J.; Hess, S.; Endlich, K.; Thalmann, J.; Holzberg, D.; Kracht, M.; Schaefer, M.; Bartling, G. und Klos, A. (2005): Silencing or permanent activation: host-cell responses in models of persistent Chlamydia pneumoniae infection, Cell Microbiol. (volume 7), issue 8, pp. 1099-1108. URL: PM:16008577
- [191] Peterson, E. M.; Cheng, X.; Qu, Z. und de la Maza, L. M. (1996): Characterization of the murine antibody response to peptides representing the variable domains of the major outer membrane protein of Chlamydia pneumoniae, Infect.Immun. (volume 64), issue 8, pp. 3354-3359. URL: PM:8757875
- [192] Haranaga, S.; Yamaguchi, H.; Friedman, H.; Izumi, S. und Yamamoto, Y. (2001): Chlamydia pneumoniae infects and multiplies in lymphocytes in vitro, Infect.Immun. (volume 69), issue 12, pp. 7753-7759. URL: PM:11705957
- [193] Yamaguchi, H.; Haranaga, S.; Widen, R.; Friedman, H. und Yamamoto, Y. (2002): Chlamydia pneumoniae infection induces differentiation of monocytes into

macrophages, *Infect.Immun.* (volume 70), issue 5, pp. 2392-2398. URL: PM:11953375

[194] Haranaga, S.; Yamaguchi, H.; Ikejima, H.; Friedman, H. und Yamamoto, Y. (2003): *Chlamydia pneumoniae* infection of alveolar macrophages: a model, *J.Infect.Dis.* (volume 187), issue 7, pp. 1107-1115. URL: PM:12660925

[195] van Zandbergen, G.; Gieffers, J.; Kothe, H.; Rupp, J.; Bollinger, A.; Aga, E.; Klinger, M.; Brade, H.; Dalhoff, K.; Maass, M.; Solbach, W. und Laskay, T. (2004): *Chlamydia pneumoniae* multiply in neutrophil granulocytes and delay their spontaneous apoptosis, *J.Immunol.* (volume 172), issue 3, pp. 1768-1776. URL: PM:14734760

[196] Hassanain, H. H.; Chon, S. Y. und Gupta, S. L. (1993): Differential regulation of human indoleamine 2,3-dioxygenase gene expression by interferons-gamma and -alpha. Analysis of the regulatory region of the gene and identification of an interferon-gamma-inducible DNA-binding factor, *J Biol Chem.* (volume 268), issue 7, pp. 5077-5084. URL: PM:8444884

[197] Thomas, S. M.; Garrity, L. F.; Brandt, C. R.; Schobert, C. S.; Feng, G. S.; Taylor, M. W.; Carlin, J. M. und Byrne, G. I. (1993): IFN-gamma-mediated antimicrobial response. Indoleamine 2,3-dioxygenase-deficient mutant host cells no longer inhibit intracellular *Chlamydia* spp. or *Toxoplasma* growth, *J Immunol* (volume 150), issue 12, pp. 5529-5534. URL: PM:8515074

[198] Summersgill, J. T.; Sahney, N. N.; Gaydos, C. A.; Quinn, T. C. und Ramirez, J. A. (1995): Inhibition of *Chlamydia pneumoniae* growth in HEp-2 cells pretreated with gamma interferon and tumor necrosis factor alpha, *Infect.Immun.* (volume 63), issue 7, pp. 2801-2803. URL: PM:7790105

[199] Igietseme, J. U.; Perry, L. L.; Ananaba, G. A.; Uriri, I. M.; Ojior, O. O.; Kumar, S. N. und Caldwell, H. D. (1998): *Chlamydial* infection in inducible nitric oxide synthase knockout mice, *Infect.Immun.* (volume 66), issue 4, pp. 1282-1286. URL: PM:9529043

[200] Rottenberg, M. E.; Gigliotti Rothfuchs, A. C.; Gigliotti, D.; Svanholm, C.; Bandholtz, L. und Wigzell, H. (1999): Role of innate and adaptive immunity in the outcome of primary infection with *Chlamydia pneumoniae*, as analyzed in genetically modified mice, *J Immunol* (volume 162), issue 5, pp. 2829-2836. URL: PM:10072530

[201] Faure, E.; Equils, O.; Sieling, P. A.; Thomas, L.; Zhang, F. X.; Kirschning, C. J.; Polentarutti, N.; Muzio, M. und Arditi, M. (2000): Bacterial lipopolysaccharide activates NF-kappaB through toll-like receptor 4 (TLR-4) in cultured human dermal endo-

thelial cells. Differential expression of TLR-4 and TLR-2 in endothelial cells, *J Biol Chem.* (volume 275), issue 15, pp. 11058-11063. URL: PM:10753909

[202] Prebeck, S.; Kirschning, C.; Durr, S.; da Costa, C.; Donath, B.; Brand, K.; Redecke, V.; Wagner, H. und Miethke, T. (2001): Predominant role of toll-like receptor 2 versus 4 in *Chlamydia pneumoniae*-induced activation of dendritic cells, *J Immunol* (volume 167), issue 6, pp. 3316-3323. URL: PM:11544320

[203] Rothfuchs, A. G.; Trumstedt, C.; Wigzell, H. und Rottenberg, M. E. (2004): Intracellular bacterial infection-induced IFN-gamma is critically but not solely dependent on Toll-like receptor 4-myeloid differentiation factor 88-IFN-alpha beta-STAT1 signaling, *J Immunol* (volume 172), issue 10, pp. 6345-6353. URL: PM:15128825

[204] Haralambieva, I. H.; Iankov, I. D.; Ivanova, P. V.; Mitev, V. und Mitov, I. G. (2004): *Chlamydia pneumoniae* induces p44/p42 mitogen-activated protein kinase activation in human fibroblasts through Toll-like receptor 4, *J Med Microbiol* (volume 53), issue Pt 12, pp. 1187-1193. URL: PM:15585496

[205] Netea, M. G.; Kullberg, B. J.; Jacobs, L. E.; Verver-Jansen, T. J.; van, der, V.; Galama, J. M.; Stalenhoef, A. F.; Dinarello, C. A. und Van der Meer, J. W. (2004): *Chlamydia pneumoniae* stimulates IFN-gamma synthesis through MyD88-dependent, TLR2-and TLR4-independent induction of IL-18 release, *J Immunol* (volume 173), issue 2, pp. 1477-1482. URL: PM:15240744

[206] Erridge, C.; Pridmore, A.; Eley, A.; Stewart, J. und Poxton, I. R. (2004): Lipopolysaccharides of *Bacteroides fragilis*, *Chlamydia trachomatis* and *Pseudomonas aeruginosa* signal via toll-like receptor 2, *J Med Microbiol* (volume 53), issue Pt 8, pp. 735-740. URL: PM:15272059

[207] Krull, M.; Klucken, A. C.; Wuppermann, F. N.; Fuhrmann, O.; Magerl, C.; Seybold, J.; Hippenstiel, S.; Hegemann, J. H.; Jantos, C. A. und Suttorp, N. (1999): Signal transduction pathways activated in endothelial cells following infection with *Chlamydia pneumoniae*, *J Immunol* (volume 162), issue 8, pp. 4834-4841. URL: PM:10202027

[208] Krull, M.; Kramp, J.; Petrov, T.; Klucken, A. C.; Hocke, A. C.; Walter, C.; Schmeck, B.; Seybold, J.; Maass, M.; Ludwig, S.; Kuipers, J. G.; Suttorp, N. und Hippenstiel, S. (2004): Differences in cell activation by *Chlamydia pneumoniae* and *Chlamydia trachomatis* infection in human endothelial cells, *Infect.Immun.* (volume 72), issue 11, pp. 6615-6621. URL: PM:15501794

- [209] Chamailard, M.; Girardin, S. E.; Viala, J. und Philpott, D. J. (2003): Nods, Nalps and Naip: intracellular regulators of bacterial-induced inflammation, *Cell Microbiol* (volume 5), issue 9, pp. 581-592. URL: PM:12925128
- [210] Inohara, N. und Nunez, G. (2003): NODs: intracellular proteins involved in inflammation and apoptosis, *Nat.Rev Immunol* (volume 3), issue 5, pp. 371-382. URL: PM:12766759
- [211] Chamailard, M.; Hashimoto, M.; Horie, Y.; Masumoto, J.; Qiu, S.; Saab, L.; Ogura, Y.; Kawasaki, A.; Fukase, K.; Kusumoto, S.; Valvano, M. A.; Foster, S. J.; Mak, T. W.; Nunez, G. und Inohara, N. (2003): An essential role for NOD1 in host recognition of bacterial peptidoglycan containing diaminopimelic acid, *Nat.Immunol* (volume 4), issue 7, pp. 702-707. URL: PM:12796777
- [212] Girardin, S. E.; Boneca, I. G.; Carneiro, L. A.; Antignac, A.; Jehanno, M.; Viala, J.; Tedin, K.; Taha, M. K.; Labigne, A.; Zahringer, U.; Coyle, A. J.; DiStefano, P. S.; Bertin, J.; Sansonetti, P. J. und Philpott, D. J. (2003): Nod1 detects a unique muropeptide from gram-negative bacterial peptidoglycan, *Science* (volume 300), issue 5625, pp. 1584-1587. URL: PM:12791997
- [213] Girardin, S. E.; Boneca, I. G.; Viala, J.; Chamailard, M.; Labigne, A.; Thomas, G.; Philpott, D. J. und Sansonetti, P. J. (2003): Nod2 is a general sensor of peptidoglycan through muramyl dipeptide (MDP) detection, *J Biol Chem.* (volume 278), issue 11, pp. 8869-8872. URL: PM:12527755
- [214] Inohara, N.; Ogura, Y.; Fontalba, A.; Gutierrez, O.; Pons, F.; Crespo, J.; Fukase, K.; Inamura, S.; Kusumoto, S.; Hashimoto, M.; Foster, S. J.; Moran, A. P.; Fernandez-Luna, J. L. und Nunez, G. (2003): Host recognition of bacterial muramyl dipeptide mediated through NOD2. Implications for Crohn's disease, *J Biol Chem.* (volume 278), issue 8, pp. 5509-5512. URL: PM:12514169
- [215] Bertin, J.; Nir, W. J.; Fischer, C. M.; Tayber, O. V.; Errada, P. R.; Grant, J. R.; Keilty, J. J.; Gosselin, M. L.; Robison, K. E.; Wong, G. H.; Glucksmann, M. A. und DiStefano, P. S. (1999): Human CARD4 protein is a novel CED-4/Apaf-1 cell death family member that activates NF-kappaB, *J Biol Chem.* (volume 274), issue 19, pp. 12955-12958. URL: PM:10224040
- [216] Gutierrez, O.; Pipaon, C.; Inohara, N.; Fontalba, A.; Ogura, Y.; Prosper, F.; Nunez, G. und Fernandez-Luna, J. L. (2002): Induction of Nod2 in myelomonocytic and intestinal epithelial cells via nuclear factor-kappa B activation, *J Biol Chem.* (volume 277), issue 44, pp. 41701-41705. URL: PM:12194982

- [217] Inohara, N.; Koseki, T.; del Peso, L.; Hu, Y.; Yee, C.; Chen, S.; Carrio, R.; Merino, J.; Liu, D.; Ni, J. und Nunez, G. (1999): Nod1, an Apaf-1-like activator of caspase-9 and nuclear factor-kappaB, *J Biol Chem.* (volume 274), issue 21, pp. 14560-14567. URL: PM:10329646
- [218] Ogura, Y.; Inohara, N.; Benito, A.; Chen, F. F.; Yamaoka, S. und Nunez, G. (2001): Nod2, a Nod1/Apaf-1 family member that is restricted to monocytes and activates NF-kappaB, *J Biol Chem.* (volume 276), issue 7, pp. 4812-4818. URL: PM:11087742
- [219] Magee, D. M.; Williams, D. M.; Smith, J. G.; Bleicker, C. A.; Grubbs, B. G.; Schachter, J. und Rank, R. G. (1995): Role of CD8 T cells in primary Chlamydia infection, *Infect.Immun.* (volume 63), issue 2, pp. 516-521. URL: PM:7822016
- [220] Su, H. und Caldwell, H. D. (1995): CD4+ T cells play a significant role in adoptive immunity to Chlamydia trachomatis infection of the mouse genital tract, *Infect.Immun.* (volume 63), issue 9, pp. 3302-3308. URL: PM:7642259
- [221] Buzoni-Gatel, D.; Guilloteau, L.; Bernard, F.; Bernard, S.; Chardes, T. und Rocca, A. (1992): Protection against Chlamydia psittaci in mice conferred by Lyt-2+ T cells, *Immunology* (volume 77), issue 2, pp. 284-288. URL: PM:1427980
- [222] Kaukoranta-Tolvanen, S. E.; Laurila, A. L.; Saikku, P.; Leinonen, M. und Laitinen, K. (1995): Experimental Chlamydia pneumoniae infection in mice: effect of reinfection and passive immunization, *Microb.Pathog.* (volume 18), issue 4, pp. 279-288. URL: PM:7476093
- [223] Wizel, B.; Starcher, B. C.; Samten, B.; Chroneos, Z.; Barnes, P. F.; Dzuris, J.; Higashimoto, Y.; Appella, E. und Sette, A. (2002): Multiple Chlamydia pneumoniae antigens prime CD8+ Tc1 responses that inhibit intracellular growth of this vacuolar pathogen, *J Immunol* (volume 169), issue 5, pp. 2524-2535. URL: PM:12193722
- [224] Penttila, J. M.; Anttila, M.; Varkila, K.; Puolakkainen, M.; Sarvas, M.; Makela, P. H. und Rautonen, N. (1999): Depletion of CD8+ cells abolishes memory in acquired immunity against Chlamydia pneumoniae in BALB/c mice, *Immunology* (volume 97), issue 3, pp. 490-496. URL: PM:10447772
- [225] Halme, S.; Latvala, J.; Karttunen, R.; Palatsi, I.; Saikku, P. und Surcel, H. M. (2000): Cell-mediated immune response during primary Chlamydia pneumoniae infection, *Infect.Immun.* (volume 68), issue 12, pp. 7156-7158. URL: PM:11083846
- [226] Beatty, P. R. und Stephens, R. S. (1994): CD8+ T lymphocyte-mediated lysis of Chlamydia-infected L cells using an endogenous antigen pathway, *J Immunol.* (volume 153), issue 10, pp. 4588-4595. URL: PM:7963531

- [227] Starnbach, M. N.; Bevan, M. J. und Lampe, M. F. (1994): Protective cytotoxic T lymphocytes are induced during murine infection with *Chlamydia trachomatis*, *J Immunol.* (volume 153), issue 11, pp. 5183-5189. URL: PM:7525725
- [228] Vuola, J. M.; Puurula, V.; Anttila, M.; Makela, P. H. und Rautonen, N. (2000): Acquired immunity to *Chlamydia pneumoniae* is dependent on gamma interferon in two mouse strains that initially differ in this respect after primary challenge, *Infect.Immun.* (volume 68), issue 2, pp. 960-964. URL: PM:10639472
- [229] Pinchuk, I.; Starcher, B. C.; Livingston, B.; Tvinnereim, A.; Wu, S.; Appella, E.; Sidney, J.; Sette, A. und Wozniak, B. (2005): A CD8+ T cell heptaepitope minigene vaccine induces protective immunity against *Chlamydia pneumoniae*, *J Immunol.* (volume 174), issue 9, pp. 5729-5739. URL: PM:15843575
- [230] Penttila, T.; Tammiruusu, A.; Liljestrom, P.; Sarvas, M.; Makela, P. H.; Vuola, J. M. und Puolakkainen, M. (2004): DNA immunization followed by a viral vector booster in a *Chlamydia pneumoniae* mouse model, *Vaccine* (volume 22), issue 25-26, pp. 3386-3394. URL: PM:15308363
- [231] Marin, V.; Farnarier, C.; Gres, S.; Kaplanski, S.; Su, M. S.; Dinarello, C. A. und Kaplanski, G. (2001): The p38 mitogen-activated protein kinase pathway plays a critical role in thrombin-induced endothelial chemokine production and leukocyte recruitment, *Blood* (volume 98), issue 3, pp. 667-673. URL: PM:11468165
- [232] Chang, L. und Karin, M. (2001): Mammalian MAP kinase signalling cascades, *Nature* (volume 410), issue 6824, pp. 37-40. URL: PM:11242034
- [233] Dong, C.; Davis, R. J. und Flavell, R. A. (2002): MAP kinases in the immune response, *Annu.Rev.Immunol.* (volume 20), pp. 55-72. URL: PM:11861597
- [234] Azenabor, A. A.; Chaudhry, A. U. und Yang, S. (2003): Macrophage L-type Ca²⁺ channel antagonists alter *Chlamydia pneumoniae* MOMP and HSP-60 mRNA gene expression, and improve antibiotic susceptibility, *Immunobiology* (volume 207), issue 4, pp. 237-245. URL: PM:12952346
- [235] Azenabor, A. A.; Yang, S.; Job, G. und Adedokun, O. O. (2004): Elicitation of reactive oxygen species in *Chlamydia pneumoniae*-stimulated macrophages: a Ca²⁺-dependent process involving simultaneous activation of NADPH oxidase and cytochrome oxidase genes, *Med Microbiol Immunol (Berl.)*. URL: PM:15197588
- [236] Wissel, H.; Muller, T.; Rudiger, M.; Krull, M. und Wauer, R. R. (2005): Contact of *Chlamydia pneumoniae* with type II cell triggers activation of calcium-mediated NF-kappa B pathway, *Biochim.Biophys.Acta* (volume 1743), issue 1-2, pp. 37-48. URL: PM:15777838

- [237] Hale, K. K.; Trollinger, D.; Rihanek, M. und Manthey, C. L. (1999): Differential expression and activation of p38 mitogen-activated protein kinase alpha, beta, gamma, and delta in inflammatory cell lineages, *Journal of Immunology* (volume 162), issue 7, pp. 4246-4252. URL: ISI:000079278000068
- [238] Kothe, H.; Dalhoff, K.; Rupp, J.; Muller, A.; Kreuzer, J.; Maass, M. und Katus, H. A. (2000): Hydroxymethylglutaryl coenzyme A reductase inhibitors modify the inflammatory response of human macrophages and endothelial cells infected with *Chlamydia pneumoniae*, *Circulation* (volume 101), issue 15, pp. 1760-1763. URL: PM:10769273
- [239] Miller, S. A.; Selzman, C. H.; Shames, B. D.; Barton, H. A.; Johnson, S. M. und Harken, A. H. (2000): *Chlamydia pneumoniae* activates nuclear factor kappaB and activator protein 1 in human vascular smooth muscle and induces cellular proliferation, *J Surg.Res.* (volume 90), issue 1, pp. 76-81. URL: PM:10781378
- [240] Al Younes, H. M.; Rudel, T.; Brinkmann, V.; Szczepek, A. J. und Meyer, T. F. (2001): Low iron availability modulates the course of *Chlamydia pneumoniae* infection, *Cell Microbiol.* (volume 3), issue 6, pp. 427-437. URL: PM:11422085
- [241] Pantoja, L. G.; Miller, R. D.; Ramirez, J. A.; Molestina, R. E. und Summersgill, J. T. (2001): Characterization of *Chlamydia pneumoniae* persistence in HEp-2 cells treated with gamma interferon, *Infect.Immun.* (volume 69), issue 12, pp. 7927-7932. URL: PM:11705979
- [242] Klockmann, M. T.; Jahn, H. U.; Hippenstiel, S.; Kramer, H. J. und Suttorp, N. (1998): Interaction of human neutrophils with airway epithelial cells: reduction of leukotriene B4 generation by epithelial cell derived prostaglandin E2, *J Cell Physiol* (volume 175), issue 3, pp. 268-275. URL: PM:9572471
- [243] Akarasereenont, P. und Thiemermann, C. (1996): The induction of cyclooxygenase-2 in human pulmonary epithelial cell culture (A549) activated by IL-1beta is inhibited by tyrosine kinase inhibitors, *Biochem.Biophys.Res.Commun.* (volume 220), issue 1, pp. 181-185. URL: PM:8602840
- [244] Sousa, A.; Pfister, R.; Christie, P. E.; Lane, S. J.; Nasser, S. M.; Schmitz-Schumann, M. und Lee, T. H. (1997): Enhanced expression of cyclo-oxygenase isoenzyme 2 (COX-2) in asthmatic airways and its cellular distribution in aspirin-sensitive asthma, *Thorax.* (volume 52), issue 11, pp. 940-945. URL: PM:9487340
- [245] Hida, T.; Yatabe, Y.; Achiwa, H.; Muramatsu, H.; Kozaki, K.; Nakamura, S.; Ogawa, M.; Mitsudomi, T.; Sugiura, T. und Takahashi, T. (1998): Increased expression of cyclooxygenase 2 occurs frequently in human lung cancers, specifically in

adenocarcinomas, *Cancer Res.* (volume 58), issue 17, pp. 3761-3764. URL: PM:9731479

[246] Tsujii, M. und DuBois, R. N. (1995): Alterations in cellular adhesion and apoptosis in epithelial cells overexpressing prostaglandin endoperoxide synthase 2, *Cell* (volume 83), issue 3, pp. 493-501. URL: PM:8521479

[247] Tucker, O. N.; Dannenberg, A. J.; Yang, E. K.; Zhang, F.; Teng, L.; Daly, J. M.; Soslow, R. A.; Masferrer, J. L.; Woerner, B. M.; Koki, A. T. und Fahey, T. J., III (1999): Cyclooxygenase-2 expression is up-regulated in human pancreatic cancer, *Cancer Res.* (volume 59), issue 5, pp. 987-990. URL: PM:10070951

[248] May, A. E.; Redecke, V.; Gruner, S.; Schmidt, R.; Massberg, S.; Miethke, T.; Ryba, B.; Prazeres, da Costa; Schomig, A. und Neumann, F. J. (2003): Recruitment of *Chlamydia pneumoniae*-infected macrophages to the carotid artery wall in noninfected, nonatherosclerotic mice, *Arterioscler.Thromb.Vasc.Biol* (volume 23), issue 5, pp. 789-794. URL: PM:12663369

[249] Stephens, R. S.; Kalman, S.; Lammel, C.; Fan, J.; Marathe, R.; Aravind, L.; Mitchell, W.; Olinger, L.; Tatusov, R. L.; Zhao, Q.; Koonin, E. V. und Davis, R. W. (1998): Genome sequence of an obligate intracellular pathogen of humans: *Chlamydia trachomatis*, *Science.* (volume 282), issue 5389, pp. 754-759. URL: PM:9784136

[250] Pauleau, A. L. und Murray, P. J. (2003): Role of nod2 in the response of macrophages to toll-like receptor agonists, *Mol Cell Biol* (volume 23), issue 21, pp. 7531-7539. URL: PM:14560001