

List of Publications - Jörg Hacker

Original Papers

1976 - 1985

1. Ezold, R., Linde, K., Hacker, J., Rothenberg, G., Kleber, S. 1976. S-R-Phagenspektrum von *Salmonella*-Mutanten mit nicht-vermehrungsbegrenzenden Markern. Zschr. Ges. Hyg. (Anh. zum 1. Beiheft) **22**, 7-11.
2. Hacker, J., Ezold, R., Linde, K., Kleber, S. 1976. Änderungen des serologischen-, lytischen- und Virulenzverhaltens durch *S. typhimurium* F' Plasmide. Zschr. Ges. Hyg. (Anh. zum 1. Beiheft) **22**, 12-22.
3. Hughes, C., Müller, D., Hacker, J., Goebel, W. 1982. Genetics and pathogenic role of *Escherichia coli* hemolysin. Toxicon **20**, 247-252.
4. Hof, H., Emmerling, P., Hacker, J., Hughes, C. 1982. The role of macrophages in primary and secondary infection of mice with *Salmonella typhimurium*. Ann. Immunol. (Inst. Pasteur) **133C**, 21-33.
5. Berger, H., Hacker, J., Juarez, A., Hughes, C., Goebel, W. 1982. Cloning of the chromosomal determinants encoding hemolysin production and mannose-resistant hemagglutination in *Escherichia coli*. J. Bacteriol. **152**, 1241-1247.
6. Hacker, J., Hughes, C., Hof, H., Goebel, W. 1983. Cloned hemolysin genes from *Escherichia coli* that cause urinary tract infection. Determine different levels of toxicity in mice. Infect. Immun. **42**, 57-63.
7. Hacker, J., Knapp, S., Goebel, W. 1983. Spontaneous deletions and flanking regions of the chromosomal inherited hemolysin determinant of an *Escherichia coli* O6 strain. J. Bacteriol. **154**, 1145-1152.
8. Hacker, J., Schröter, G., Schrettenbrunner, A., Hughes, C., Goebel, W. 1983. Hemolytic *Escherichia coli* strains in the human fecal flora as potential urinary pathogens. Zbl. Bakt. Hyg. I. Abt. Orig. **A 254**, 370-378.
9. Hughes, C., Hacker, J., Roberts, A., Goebel, W. 1983. Hemolysin production as a virulence marker in symptomatic and asymptomatic urinary tract infections caused by *Escherichia coli*. Infect. Immun., **39**, 546-551.
10. Knapp, S., Hacker, J., Then, I., Müller, D., Goebel, W. 1984. Multiple copies of hemolysin genes and associated sequences in the chromosome of uropathogenic *Escherichia coli* strains. J. Bacteriol. **159**, 1027-1033.
11. König, W., Scheffer, J., Bremm, K. D., Hacker, J., Goebel, W. 1985. The role of bacterial adherence and toxin production from *E. coli* on leukotriene generation from human polymorphonuclear granulocytes. Int. Archs. Allergy Appl. Immunol. **77**, 118-120.
12. Hacker, J., Schmidt, G., Hughes, C., Knapp, S., Marget, M., Goebel, W. 1985. Cloning and characterization of genes involved in the production of mannose-resistant, neuraminidase-susceptible (X) fimbriae from an uropathogenic O6:K15:K31 *Escherichia coli* strain. Infect. Immun. **47**, 434-440.
13. Brändle, H. P., Hof, H., Hacker, J., Oberhauser, O. 1985. Experimentelle Untersuchung über die Wirkung von Betalactam-Antibiotika bei der Infektion der Maus mit einem Betalactamase-produzierenden Stamm von *Salmonella typhimurium*. Zschr. Antimikrobiol. Antineopl. Chemother. **3**, 57-64.

14. Hacker, J., Hof, H., Hughes, C., Goebel, W. 1985. *Salmonella typhimurium* strains carrying hemolysin plasmids and cloned hemolysin. Genes from *Escherichia coli*. Ann. Microbiol. (Inst. Pasteur) **136A**, 289-301.
15. Scheffer, J., König, W., Hacker, J., Goebel, W. 1985. Bacterial adherence and hemolysin production from *Escherichia coli* induces histamine and leukotriene release from various cells. Infect. Immun. **50**, 271-278.
16. Knapp, S., Then, I., Wels, W., Michel, W., Tschäpe, H., Hacker, J., Goebel, W. 1985. Comparison of the flanking regions between different hemolysin determinants of *Escherichia coli*. Mol. Gen. Genet. **200**, 385-392.

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17. Hacker, J., Schrettenbrunner, A., Schröter, G., Schmidt, G., Düvel, H., Goebel, W. 1986. Characterization of *Escherichia coli* wild-type strains by means of agglutination with antisera raised against cloned P-, S- and MS-fimbriae antigens, hemagglutination, serotyping and hemolysin-production. Zbl. Bakt. Hyg. I. Abt. Orig. **A261**, 219-231.
18. Moser, I., Orskov, I., Hacker, J., Jann, K. 1986. Characterization of a monoclonal antibody against the fimbrial F8 antigen of *Escherichia coli*. FEMS Microbiol. Lett. **34**, 329-334.
19. Hacker, J., Ott, M., Schmidt, G., Hull, R., Goebel, W. 1986. Molecular cloning of the F8 antigen from *Escherichia coli*. FEMS Microbiol. Lett. **36**, 139-144.
20. Knapp, S., Hacker, J., Jarchau, T., Goebel, W. 1986. Large instable regions in the chromosome affect virulence properties of an uropathogenic *Escherichia coli* O6 strain. J. Bacteriol. **168**, 22-30.
21. Hof, H., Christen, A., Hacker, J. 1986. Comparative therapeutic activities of Ciprofloxacin, Amoxicillin, Ceftriaxone and Cotrimoxazole in a new model of experimental infection with *Escherichia coli*. Infection **14**, 190-194.
22. Korhonen, T. K., Parkkinen, J., Hacker, J., Finne, J., Pere, A., Rhen, M., Holthöfer, H. 1986. Binding of *Escherichia coli* S fimbriae to human kidney epithelium. Infect. Immun. **54**, 322-327.
23. Hacker, J., Hof, H., Emödy, L., Goebel, W. 1986. Influence of cloned *Escherichia coli* hemolysin genes, S fimbriae and serum resistance on pathogenicity in different animal models. Microb. Pathogenesis **1**, 533-547.
24. Ott, M., Hacker, J., Schmoll, T., Jarchau, T., Korhonen, T. K., Goebel, W. 1986. Analysis of the genetic determinants coding for the S fimbrial adhesin (*sfa*) in different *Escherichia coli* strains causing meningitis or urinary tract infections. Infect. Immun. **54**, 646-653.
25. Marre, R., Hacker, J., Henkel, W., Goebel, W. 1986. Contribution of cloned virulence factors from uropathogenic *E. coli* strains to nephropathogenicity in an experimental rat pyelonephritis model. Infect. Immun. **54**, 761-767.
26. König, B., König, W., Scheffer, J., Hacker, J., Goebel, W. 1986. On the role of *Escherichia coli* α -hemolysin and bacterial adherence infection - requirement for release of inflammatory mediators from granulocytes and mast cells. Infect. Immun. **54**, 886-892.

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27. Marre, R., Hacker, J. 1987. Role of S and common type I-fimbriae of *Escherichia coli* in experimental upper and lower urinary tract infection. Microb. Pathogenesis, **2**, 223-226.

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30. Schmoll, T., Hacker, J., Goebel, W. 1987. Nucleotide sequence of the *sfaA* gene coding for the S fimbrial protein subunit of *Escherichia coli*. *FEMS Microbiol. Lett.* **41**, 229-235.
31. Moch, T., Hoschützky, H., Hacker, J., Krönke, K.-D., Jann, K. 1987. Isolation and characterization of the α -Sialyl- β 2-3-Galactosyl (S)-Specific Adhesin fimbriated *Escherichia coli*. *Proc. Natl. Acad. Sci. USA* **84**, 3462-3466.
32. Ott, M., Schmoll, T., Goebel, W., Van Die, I., Hacker, J. 1987. Comparison of the genetic determinant coding for the S-fimbrial adhesin (*sfa*) of *Escherichia coli* to other chromosomally encoded fimbrial determinants. *Infect. Immun.* **55**, 1940-1943.
33. Ulmer, E., Hacker, J., Fasske, B., Schmidt, G. 1987. Isolation and characterization of phages which recognize O18 *E. coli* strains. *Zbl. Bakt. Mikrobiol. Hyg. I. Abt.* **A 266**, 403-411.

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34. Parkkinen, J., Korhonen, T. K. Pere, A., Hacker, J., Soinila, S. 1988. Binding sites in the rat brain for *Escherichia coli* S fimbriae associated with neonatal meningitis. *J. Clin. Invest.* **81**, 860-865.
35. Wirbelauer, J., Hof, H., Hacker, J. 1988. Die therapeutische Wirksamkeit von Desacetylcefotaxin, einem Metaboliten von Cefotaxim, auf die Infektion von *Escherichia coli*. *Zschr. Antimikr. Antineopl. Chemother.* **6**, 7-10.
36. Ott, M., Hoschützky, H., Jann, K., Van Die, I., Hacker, J. 1988. Gene clusters for S fimbrial adhesin (*sfa*) and F1C Fimbriae (*foc*) of *Escherichia coli*: Comparative aspects of structure and function. *J. Bacteriol.* **170**, 3983-3990.
37. Pawelzik, M., Heesemann, J., Hacker, J., Opferkuch, W. 1988. Cloning and characterization of a new type of fimbria (S/F1C-related fimbria) expressed by an *Escherichia coli* O75:K1:H7 blood culture isolate. *Infect. Immun.* **56**, 2918-2924.
38. Munoa, F., Hacker, J., Juarez, A. 1988. Characterization of a chromosomal mutant that blocks hemolysin excretion in *Escherichia coli*. *FEMS Microbiol. Lett.* **56**, 167-172.

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40. Marre, R., Hacker, J., Wood, G., Schmidt, G. 1989. Oral vaccination of rats with live avirulent Salmonella derivatives expressing adhesive fimbrial agents of uropathogenic *Escherichia coli*. *FEMS Microbiol. Immunol.* **47**, 229-236.
41. König, W., König, B., Scheffer, J., Hacker, J., Goebel, W. 1989. Role of cloned virulence factors (mannose-resistant hemagglutination, mannose-resistant adhesins) from uropathogenic *Escherichia coli* strains in release of inflammatory mediators from neutrophils and mast cells. *Immunology* **67**, 401-407.

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43. Marre, R., Hacker, J., Braun, V. 1989. The cell-bound hemolysin of *Serratia marcescens* contributes to uropathogenicity. Microb. Pathogenesis **7**, 153-156.
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47. Morschhäuser, J., Hoschützky, H., Jann, K., Hacker, J. 1990. Functional analysis of the Sialic acid-binding adhesin SfaS of pathogenic *Escherichia coli* by site-specific mutagenesis. Infect. Immun. **58**, 2133-2138.
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55. Ott, M., Bender, L., Marre, R., Hacker, J. 1991. Pulsed field electrophoresis of genomic restriction fragments for the detection of nosocomial *Legionella pneumophila* in hospital water supplies. J. Clin. Microbiol. **29**, 813-815.

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58. Wintermeyer, E., Rdest, U., Ludwig, B., Debes, A., Hacker, J. 1991. Characterization of legiolysin (*lly*); responsible for hemolytic activity, colour production and fluorescence of *Legionella pneumophila*. *Molec. Microbiol.* **5**, 1135-1143.
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60. Parkkinen, J., Hacker, J., Korhonen, T. K. 1991. Enhancement of tissue plasminogen activator-catalyzed plasminogen activation by *Escherichia coli* S fimbriae associated with neonatal septicaemia and meningitis. *Thrombosis and Haemostasis* **65**, 483-486.
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