

## 7. Literatur

AHVONEN, P. (1972):

Human yersiniosis in Finland I. Bacteriology and serology.  
Ann. Clin. Res. 4, 30-38

ALBERT, S., P.L. WOLF, A.V. LOUD, I. PRYJMA, R. POTTER u. W. MOORE (1966):

Spleen development in mice of high and low leukemic strains.  
J. Reticuloendothel. Soc. 3, 176-201

ALEKSIC, S. (1995):

Occurrence of *Y. enterocolitica* antigens O:3, O:9 and O:8 in different *Yersinia* species, their corresponding H antigens and origin.  
Contrib. Microbiol. Immunol. 13, 89-92

ALEKSIC, S. u. J. BOCKEMÜHL (1990):

Mikrobiologie und Epidemiologie der Yersiniosen.  
Immun. Infekt. 18, 178-185

ALEKSIC, S., u. J. BOCKEMÜHL (1996):

Untersuchungen von *Yersinia*-Stämmen aus Deutschland, 1993-1994.  
Bundesgesundheitsblatt 3, 94-97

ALEKSIC, S., J. BOCKEMÜHL, H.H. WUTHE u. V. ALEKSIC (1988):

Occurrence and clinical importance of the pathogenic serogroup O:5,27 of *Yersinia enterocolitica* in the Federal Republic of Germany and methods for serological and bacteriological identification.  
Zentralbl. Bakt. Hyg. A. 269, 197-204

ANDERSON, G.W., u. J.V. OSTERMAN (1980):

Host defences in experimental rickettsial pox: genetics of natural resistance to infection.  
Infect. Immun. 28, 132-136

ARBONES, M.L., D.C. ORD, K. LEY, H. RATECH, C. MAYNARD-CURRY, G. OTTEN, D.J. CAPON u. T.F. TEDDER (1994):

Lymphocyte homing and leukocyte rolling and migration are impaired in L-selectin-deficient mice.  
Immunity 1, 247-260

AUTENRIETH, I.B., A. TINGLE, A. RESKE-KUNZ u. J. HEESEMANN (1992):

T lymphocytes mediate protection against *Yersinia enterocolitica* in mice: characterization of murine T-cell-clone specific for *Y. enterocolitica*.

Infect. Immun. 60, 1140-1149

AUTENRIETH, I.B., u. J. HEESEMANN (1992):

In vivo neutralization of tumor necrosis factor-alpha and interferon-gamma abrogates resistance to *Yersinia enterocolitica* infection in mice.

Med. Microbiol. Immun. (Berl) 181, 333-338

AUTENRIETH, I.B., P. HANTSCHMANN, B. HEYMER u. J. HEESEMANN (1993a):

Immunohistological characterization of the cellular immune response against *Yersinia enterocolitica* in mice: evidence for the involvement of T lymphocytes.

Immunobiology 187, 1-16

AUTENRIETH, I.B., M. BEER, P. HANTSCHMANN, S. PREGER, U. VOGEL, B. HEYMER u. J. HEESEMANN (1993b):

The cellular immune response against *Yersinia enterocolitica* in different inbred strains of mice: evidence for an important role of T lymphocytes.

Zentralbl. Bakteriologie 278, 383-395

AUTENRIETH, I.B., U. VOGEL, S. PREGER, B. HEYMER u. J. HEESEMANN (1993c):

Experimental *Yersinia enterocolitica* infection in euthymic and T-cell-deficient athymic nude C57BL/6 mice: comparison of time course, histomorphology, and immune response.

Infect. Immun. 61, 2585-2595

AUTENRIETH, I.B., M. BEER, E. BOHN, S.H.E. KAUFMANN u. J. HEESEMANN (1994):

Immune responses to *Yersinia enterocolitica* in susceptible BALB/c and resistant C57BL/6 mice: an essential role for gamma interferon.

Infect. Immun. 62, 2590-2599

AUTENRIETH, I.B., V. KEMPF, T. SPRINZ, S. PREGER u. J. HEESEMANN (1996):

Defense mechanisms in Peyer's patches and mesenteric lymph nodes against *Yersinia enterocolitica* involve integrins and cytokines.

Infect. Immun. 64, 1357-1368

AUTENRIETH, I.B., u. R. FIRSCHING (1996):

Penetration of M cells and destruction of Peyer's patches by *Yersinia enterocolitica*: an ultrastructural and histological study.

J. Med. Microbiol. 44, 285-294

BALLIGAND, G., Y. LAROCHE u. G. CORNELIS (1985):

Genetic analysis of virulence plasmid from a serogroup 9 *Yersinia enterocolitica* strain: role of outer membrane protein P1 in resistance to human serum and autoagglutination.

Infect. Immun. 48, 782-786

BARGATZE, R.F., u. E.C. BUTCHER (1993):

Rapid G protein-regulated activation event involved in lymphocyte binding to high endothelial venules.

J. Exp. Med. 78, 367-372

BARGATZE, R.F., M.A. JUTILA u. E.C. BUTCHER (1995):

Distinct roles of L-selectin and Integrin alpha 4 beta 7 and LFA-1 in lymphocyte homing to Peyer's patch-HEV in situ: the multistep model confirmed and refined.

Immunity 3, 99-108

BARTHOLD, S.W., D.S. BECK, G.M. HANSEN, G.A. TERWILLIGER u. K.D. MOODY (1990):

Lyme borreliosis in selected strains and ages of laboratory mice.

J. Infect. Dis. 162, 133-138

BAUMGART, J. (1999):

Mikrobiologische Untersuchung von Lebensmitteln.

Behr's Verlag, Hamburg

BENTVELZEN, P., J.H. DAAMS, P. HAGEMAN u. J. CALAFAT (1970):

Genetic transmission of viruses that incite mammary tumors in mice.

Proc. Natl. Acad. Sci. USA 67, 377-384

BERLIN, C., R.F. BARGATZE, J.J. CAMPBELL, U.H. VON ANDRIAN, M.C. SZABO, S.R. HASSLEN, R.D. NELSON, E.L. BERG, S.L. ERLANDSEN u. E.C. BUTCHER (1995):

Alpha 4 integrins mediate lymphocyte attachment and rolling under physiologic flow.

Cell 80, 413-422

BERLIN-RUFENACH, C., F. OTTO, M. MATHIES, J. WESTERMANN, M.J. OWEN, A. HAMANN u. N. HOGG (1999):

Lymphocyte migration in lymphocyte function-associated antigen (LFA)-1-deficient mice.  
J. Exp. Med. 189, 1467-1478

BERCOVIER, H., u. H.H. MOLLARET (1984):

Genus XIV. *Yersinia*.

in: Krieg, N.R. (Hrsg.): Bergey's manual of systematic bacteriology, Williams & Wilkins, Baltimore, USA, Vol. 1, S. 498-506

BEUSCHER, H.U., F. RÖDEL, A. FORSBERG u. M. RÖLLINGHOFF (1995):

Bacterial evasion of host immune defense: *Yersinia enterocolitica* encodes a suppressor for tumor necrosis factor alpha expression.

Infect. Immun. 63, 1270-1277

BIN-KUN, H., X. DE-SHENG, O. HONG-BI, Z. SHI-XIANG u. K.J. SLEE (1994):

Yersiniosis in sheep due to *Yersinia enterocolitica*.

Br. Vet. J. 150, 473-479

BISPING, W., u. G. AMTSBERG (1988):

Farbatlas zur Diagnose bakterieller Infektionserreger der Tiere.

Paul Parey Verlag, Berlin, Hamburg, S. 200-208

BHOL, K.C., R.M. MUKHERJEE, S. MEHRA, K.N. JALAN, T.K. MAITRA u. D.P. HALDAR (1990):

Experimental hepatic amoebiasis in inbred mice.

Indian Journal of Pathology & Microbiology 33, 364-367

BLACK, R.E., R.J. JACKSON, T. TSAI, M. MEDVESKY, J.C. FEELEY, K.I.E. MACLEOD u. A.M. WAKELEE (1978):

Epidemic *Yersinia enterocolitica* infection due to contaminated chocolate milk.

N. Engl. J. Med. 298, 76-79

BLISKA, J.B., u. S. FALKOW (1992):

Bacterial resistance to complement killing mediated by ail protein of *Yersinia enterocolitica*.

Proc. Natl. Acad. Sci. USA 89, 3561-3565

BLISKA, J.B., J.C. CLEMENS, J.E. DIXON u. S. FALKOW (1992):

The *Yersinia* tyrosine phosphatase: specificity of a bacterial virulence determinant for phosphoproteins in the J74 A.1 macrophage.

J. Exp. Med. 176, 1625-1630

BOHN, E., J. HEESEMAN, S. EHLERS u. I.B. AUTENRIETH (1994):

Early gamma interferon mRNA expression is associated with resistance of mice against *Yersinia enterocolitica*.

Infect. Immun. 62, 3027-3032

BOHN, E., u. I.B. AUTENRIETH (1996):

IL-12 is essential for resistance against *Yersinia enterocolitica* by triggering IFN-gamma production in NK cells and CD4+ T cells.

J. Immunol. 156, 1458-1468

BOHN, E., E. SCHMITT, C. BIELFELDT, A. NOLL, R. SCHULTE u. I.B. AUTENRIETH (1998a):

Ambiguous role of Interleukin-12 in *Yersinia enterocolitica* infection in susceptible and resistant mouse strains.

Infect. Immun. 66, 2213-2220

BOHN, E., A. SING, R. ZUMBIHL, C. BIELFELDT, H. OKAMURA, M. KURIMOTO, J. HEESEMAN u. I.B. AUTENRIETH (1998b):

IL-18 (IFN- $\gamma$ -inducing factor) regulates early cytokine production in, and promotes resolution of, bacterial infection in mice.

J. Immunol. 160, 299-307

BOLAND, A., M.P. SORY, M. IRIARTE, C. KERBOURCH, P. WATTIAU u. G.R. CORNELIS (1996):

Status of YopM and YopN in *Yersinia* Yop virulon: YopM of *Y. enterocolitica* is internalized inside the cytosol of PU5-1.8 macrophages by the YopB, D, N delivery apparatus.

EMBO J. 15, 5191-5201

BOTTONE, E.J. (1997):

*Yersinia enterocolitica*: The charisma continues.

Clin. Microbiol. Rev. 10, 257-276

BOTTONE, E.J. (1999):

*Yersinia enterocolitica*: overview and epidemiologic correlates.

Microb. Infect. 1, 323-333

BOWMAN, E.P., N.A. KUKLIN, K.R. YOUNGMAN, N.H. LAZARUS, E.J. KUNKEL, J. PAN, H.B. GREENBERG u. E.C. BUTCHER (2002):

The intestinal chemokine thymus-expressed chemokine (CCL25) attracts IgA antibody-secreting cells.  
J. Exp. Med. 195, 269-275

BOYD, A.P., M.P. SORY, M. IRIARTE u. G.R. CORNELIS (1998):

Heparin interferes with translocation of yop proteins into hela cells and binds to Lcrg, a regulatory component of the *Yersinia* yop apparatus.  
Molec. Microbiol. 27, 425-436

BRADFORD, W.D., P.S. NOCE u. L.T. GUTMAN (1974):

Pathologic features of enteric infection with *Yersinia enterocolitica*.  
Arch. Pathol. 98, 17-22

BRALEY, H.C., u. M.J. FREEMAN (1971):

Strain differences in antibody plaque-forming cell responses in inbred mice to pneumococcal polysaccharide.  
Cell. Immunol. 2, 73-81

BRILLIANT, M.H., A. CHING, Y. NAKATSU u. E.M. EICHER (1994):

The original pink-eyed dilution mutation (p) arose in asiatic mice: Implications for the H4 minor histocompatibility antigen, Myod1 regulation and the origin of inbred strains.  
Genetics 138, 203-211

BRISKIN, M., D. WINSOR-HINES, A. SHYJAN, N. COCHRAN, S. BLOOM, J. WILSON, L.M. MCEVOY, E.C. BUTCHER, N. KASSAM, C.R. MACKAY, W. NEWMAN u. D.J. RINGLER (1997):

Human mucosal adressin cell adhesion molecule-1 is preferentially expressed in intestinal tract and associated lymphoid tissue.  
Am. J. Pathol. 151, 97-110

BROOKE, M.S. (1965):

Natural haemagglutinins in mice: their occurrence and properties.  
Immunol. 8, 375-383

BRUGMANN, M., M. PETERS u. J. MUMME (2001):

Case report: *Yersinia enterocolitica* septicemia in an American minipig.  
Dtsch. Tierärztl. Wochenschr. 108, 257-260

BUMANN, D. (2001):

In vivo Visualization of Bacterial Colonization, Antigen Expression, and Specific T-Cell Induction following Oral Administration of Live Recombinant *Salmonella enterica* Serovar Typhimurium  
Infect. Immun. 69, No. 7, 4618-4626

CARNIEL, E., O. MERCEREAU-PUJALON u. S. BONNEFOY (1989):

The gene coding for the 190,000-dalton iron-regulated protein of *Yersinia* species is present only in the highly pathogenic strains.  
Infect. Immun. 57, 1211-1217

CARNIEL, E., I. GUILVOUT u. M. PRENTICE (1996):

Characterization of a large chromosomal "high-pathogenicity island" in biotype 1B *Yersinia enterocolitica*.  
J. Bacteriol. 178, 6743-6751

CARTER, P.B. (1975a):

Pathogenicity of *Yersinia enterocolitica* for mice.  
Infect. Immun. 11, 164-170

CARTER, P.B. (1975b):

Animal model of human disease. *Yersinia enterocolitica*. Animal model: oral *Yersinia enterocolitica* infection of mice.  
Am. J. Pathol. 81, 703-706

CARTER, P.B., u. F.M. COLLINS (1974):

Experimental *Yersinia enterocolitica* infection in mice: kinetics of growth.  
Infect. Immun. 9, 851-857

CARTER, P.B. (1981):

Pathogenicity of *Yersinia enterocolitica* for mice.  
Infect. Immun. 11, 164-178

CARTNER, S.C., J.W. SIMECKA, D.E. BRILES, G.H. CASSELL u. J.R. LINDSEY (1996):

Resistance to mycoplasmal lung-disease in mice is a complex genetic trait.  
Infect. Immun. 64, 5326-5331

CASTRO, A.P., A.P. AGUAS u. M.T. SILVA (1993):

Adjuvant treatment increases the resistance to *Mycobacterium avium* infection of *Mycobacteria*-susceptible BALB/c mice.  
Clin. Exp. Immunol. 92, 466-472

CHAMBERS, C.E., u. P.E. SOKOL (1994):

Comparison of siderophore production and utilization in pathogenic and environmental isolates of *Yersinia enterocolitica*.

J. Clin. Microbiol. 32, 22-29

CHANDLER, N.D., u. M.T. PARISI (1994):

*Yersinia enterocolitica* masquerading as appendicitis.

Arch. Pediatr. Med. 148, 527-528

CHEERS, C., u. I.F.C. MCKENZIE (1978):

Resistance and susceptibility of mice to bacterial infection: genetics of listeriosis.

Infect. Immun., 19, 755-762

CHIODINI, R. J., u. C.D. BUERGELT (1993):

Susceptibility of Balb/c, C57/B6 and C57/B10 mice to infection with *Mycobacterium paratuberculosis*.

J. Comp. Pathol. 109, 309-319

CORNELIS, G. (1998):

The *Yersinia* deadly kiss.

J. Bacteriol. 180, 5495-5584

CORNELIS, G.R. (2002):

*Yersinia* type III secretion: send in the effectors.

J. Cell Biol. 158, 401-408

CORNELIS, G., Y. LAROCHE, G. BALLIGNAD, M.-P. SORY u. G. WAUTERS (1987):

*Yersinia enterocolitica*, a primary model for bacterial invasiveness.

Rev. Infect. Dis. 9, 64-87

CORNELIS, G.R., A. BOLAND, A.P. BOYD, C. GEUJEN, M. IRIARTE, C. NEYT, M.P. SORY u.

I. STAINIER (1998):

The virulence plasmid of *Yersinia*, an antihost genome.

Microbiol. Mol. Biol. Rev. 62, 1315-1352

COVER, T.L. u. R.C. ABER (1989):

*Yersinia enterocolitica*.

New Engl. J. Med. 321, 16-24



DAHME, E., u. E. WEISS (1999):

Grundriss der speziellen pathologischen Anatomie der Haustiere.

Enke Verlag, Stuttgart, 5. Aufl., S. 184, 219

DE ALMEIDA, A.M.P., A. GUIYOUIE, I. GUILVOUT, I. ITEMAN, G. BARANTON u. E. CARNIEL (1993):

Chromosomal irp2 gene in *Yersinia*: distribution expression, deletion and impact on virulence.

Microb. Pathog. 14, 9-21

DE KONING-WARD, T.F., u. R.M. ROBINS-BROWNE (1995):

Contribution to urease to acid tolerance in *Yersinia enterocolitica*.

Infect. Immun. 63, 3790-3795

DE KONING-WARD, T.F., A.C. WARD, R.M. ROBINS-BROWNE (1994):

Characterization of the urease-encoding gene complex of *Yersinia enterocolitica*.

Gene 145, 25-32

DEDIÈ, K. J. BOCKEMÜHL, H. KÜHN, K.J. VOLKMER u. T. WEINKE (1993):

Yersiniosen mit enterischem Verlauf beim Menschen.

in: Lehrbuch über bakterielle Zoonosen bei Tier und Mensch, Epidemiologie, Pathologie, Klinik, Diagnostik und Bekämpfung, Ferdinand Enke Verlag, Stuttgart

DI GENARO, M.S., E. MUNOZ, C. AGUILERA u. A.M.S. DE GUZMAN (2000):

*Yersinia enterocolitica* O:8 and O:5 lipopolysaccharide arthrogenicity in hamsters.

Rheumatology 39, 73-78

DI PAULI, R. (1972):

Genetics of the immune response. I. Differences in the specificity of antibodies to lipopolysaccharides among different strains of mice.

J. Immunol. 109, 394-400

DIETZ, M., u. M.A. RICK (1972):

Effect of host strain and H-2 type on spontaneous regression of murine leukaemia virus.

Int. J. Cancer 10, 99-104

DUBE, P.H., P.A. REVELL, D.D. CHAPLIN, R.G. LORENZ u. V.L. MILLER (2001):

A role for IL-1 $\alpha$  in inducing pathologic inflammation during bacterial infection.

Proc. Natl. Acad. Sci. USA 98, 10880-10885

DUBE, P.H., A. S. HANDLEY, P.A. REVELL u. V.L. MILLER (2003):

The *rov A* mutant of *Yersinia enterocolitica* displays differential degrees of virulence depending on the route of infection.

Infect. Immun. 71, 3512-3520

DUBE, P.H., A.S. HANDLEY, J. LEWIS u. V.L. MILLER (2004):

Protective role of interleukin-6 during *Yersinia enterocolitica* infection is mediated through the modulation of inflammatory cytokines.

Infect. Immun. 72, 3561-3570

DUDLEY, M.V., u. E.B. SHOTTS (1979):

Medium for isolation of *Yersinia enterocolitica*.

J. Clin. Microbiol. 10, 180-183

EBBESEN, P. (1971):

Reticulosarcoma and amyloid development in BALB/c mice inoculated with syngeneic cells from young and old donors.

J. Natl. Cancer Inst. 47, 1241-1245

EICHER, E.M., W.G. BEAME, L.L. WASHBURN u. W.K. WHITTEN (1980):

A cytogenetic investigation of inherited true hermaphroditism in BALB/cWt mice.

Cytogenet. Cell Genet. 28, 104-115

EPE, C., T. SABEL, T. SCHNIEDER u. M. STOYE (1994):

The behaviour and pathogenicity of *Toxocara canis* larvae in mice of different strains.

Parasitol. Res. 80, 691-695

FANTASIA, M., G.M. MINGRONE, A. MARTINI, C. BOSCATO u. D. CROTTI (1993):

Characterization of *Yersinia* species isolated from a kennel and from cattle and pig farms.

Vet. Rec. 132, 532-534

FARMER, J.J., G.P. CARTER, V.L. MILLER, S. FALKOW u. I.K. WACHSMUTH (1992):

Pyrazinamidase, CR-MOX agar, salicin fermentation, esculin hydrolysis, and d-xylose fermentation for identifying pathogenic serotypes of *Yersinia enterocolitica*.

J. Clin. Microbiol. 30, 2589-2594

FAULKNER, C.B., M.K. DAVIDSON, J.K. DAVIS, T.R. SCHOEB, J.W. SIMECKA u. J.R. LINDSEY (1995):

Acute *Mycoplasma pulmonis* infection associated with coagulopathy in C3H/HeN mice.

Lab. Animal Sci. 45, 368-372

FELASA Working Group on Accreditation of Laboratory Animal Science Education and Training:

NEVALAINEN, T., H.J. BLOM, A. GUAITANI, P. HARDY, B.R. HOWARD u. P. VERGARA (2002):

FELASA recommendations for accreditation of laboratory animal science education and training.

Lab. Anim.-UK. 36, 373-377

FESTING, M.F.W. (1976):

Effects of marginal malnutrition on the breeding of inbred and F1 hybrid mice - a diallel study.

in: T. ANTIKATZIDES, S. ERICKSEN u. A. SPIEGEL (Hrsg.): The Laboratory Animal in the Study of Reproduction. Gustav Fischer, Stuttgart, S. 99-114

FESTING, M.F.W. (1999):

Inbred strains of mice.

Mouse Genome Informatics, The Jackson Laboratory, Bar Harbor, Maine.

im Internet: [www.informatics.jax.org](http://www.informatics.jax.org)

FESTING, M.F.W., u. D.K. BLACKMORE (1971):

Life span of specified-pathogen-free (MRC category 4) mice and rats.

Lab. Anim. 5, 179-192

FOX, J.G., X. LI, R.J. CAHILL, K. ANDRUTIS, A.K. RUSTGI, R. ODZE u. T.C. WANG (1996):

Hypertrophic gastropathy in *Helicobacter felis*-infected wild-type C57BL/6 mice and p53 hemizygous transgenic mice.

Gastroenterology. 110, 155-166

FREDERIKSEN, W. (1964):

A study of some *Yersinia pseudotuberculosis*-like bacteria (*Bacterium enterocoliticum* and *Pasteurella X*).

14. Scand. Congr. Pathol. Microbiol., Oslo, Proc. S. 103-104

Zit. n. BERCOVIER u. MOLLARET (1984)

FREDERIKSSON-AHOMAA, M.T. KORTE u. H. KORKEALA (2001c):

Transmission of *Yersinia enterocolitica* 4/O:3 to pets via contaminated pork.

Lett. Appl. Microbiol. 32, 375-378

FREUND, R., T. DUBENSKY, R. BRONSON, A. SOTNIKOV, J. CARROLL u. T. BENJAMIN (1992):  
Polyoma tumorigenesis in mice: evidence for dominant resistance and dominant susceptibility genes of the host.

Virology 191, 724-731

FUKUSHIMA, H. (1987):

New selective agar medium for isolation of virulent *Yersinia enterocolitica*.

J. Clin. Microbiol. 25, 1068-1073

FURNEY, S.K., A.D. ROBERTS u. I.M. ORME (1990):

Effect of rifabutin on disseminated *Mycobacterium avium* infections in thymectomized, CD4 T-cell-deficient mice.

Antimicrob. Agents Chem. 34, 1629-1632

FURNEY, S.K., P.S. SKINNER, J. FARRER u. I.M. ORME (1995):

Activities of rifabutin, clarithromycin and ethambutol against two virulent strains of *Mycobacterium avium* in a mouse model.

Antimicrob. Agents Chem. 39, 786-789

GABRIDGE, M.G., G.D. ABRAMS u. W.H. MURPHY (1972):

Lethal toxicity of *Mycoplasma fermentans* in mice.

J. Infect. Dis. 125, 153-160

GARIN-BASTUJI, B., N. HUMMEL, G. GERBIER, C. CAU, R. POUULOT, M. DA COSTA u. J.-J. FONTAINE (1999):

Non specific serological reactions in the diagnosis of bovine brucellosis: experimental oral infection of cattle with repeated doses of *Yersinia enterocolitica* O:9.

Vet. Microbiol. 66, 223-233

GOODRICK, C.L. (1975):

Lifespan and the inheritance of longevity of inbred mice.

J. Gerontol. 30, 257-263

GOVERDE, R. (1999):

*Yersinia enterocolitica*-Genes involved in cold-adaptation.

Diss. Med., University of Utrecht, Faculty of Veterinary Medicine, Utrecht

GRAHN, D. (1972):

Data collection and genetic analysis in the selection and study of rodent model systems in aging.

In: S. Gibson (Hrsg.): Development of the Rodent as a Model System of Aging. DHEW, publication (NIH) 72-121, Bethesda, MD, S. 55-65

GRANT, T., V. BENNETT-WOOD u. R.M. ROBINS-BROWNE (1998):

Identification of virulence-associated characteristics in clinical isolates of *Yersinia enterocolitica* lacking classic virulence markers.

Infect. Immun. 66, 1113-1120

GRÜTZKAU, A., C. HANSKI u. M. NAUMANN (1993):

Comparative study of histopathological alterations during intestinal infection of mice with pathogenic and non-pathogenic strains of *Yersinia enterocolitica* serotype O:8.

Virchows Arch. A. Pathol. Anat. Histopathol. 423, 97-103

GRÜTZKAU, A., C. HANSKI, H. HAHN u. E.O. RIECKEN (1990):

Involvement of M cells in the bacterial invasion of Peyer's patches: a common mechanism shared by *Yersinia enterocolitica* and other enteroinvasive bacteria.

Gut 31, 1011-1015

GRUNDMANN, E. (1994):

Störungen der Individualitätswahrung, Immunpathologie.

in: E. Grundmann (Hrsg.): Einführung in die Allgemeine Pathologie. Urban & Fischer Verlag, Stuttgart, 9. Auflage, S. 64, 65

GUHAD, F.A., H.E. JENSEN, B. AALBAEK, A. RYCROFT u. J. HAU (1995):

A murine model for the study of mycotic mastitis.

J. Comp. Pathol. 113, 315-325

GUIDA, J.D., G. FEJER, L.A. PIROFSKI u. C.F. BROSNAN (1995):

Mouse adenovirus type 1 causes a fatal hemorrhagic encephalomyelitis in adult C57BL/6 but not BALB/c mice.

J. Virol. 69, 7674-7681

GUPTA, R., N.K. GANGULY, V. AHUJA, K. JOSHI u. S. SHARMA (1995):

An ascending non-obstructive model for chronic pyelonephritis in BALB/c mice.

J. Med. Microbiol. 43, 33-36

HAASE, R., C.J. KIRSCHNING, A. SING, P. SCHRÖTTNER, K. FUKASE, S. KUSUMOTO, H. WAGNER, J. HEESEMANN u. K. RUCKDESCHEL (2003):  
A dominant role of Toll-like receptor 4 in signalling of apoptosis in bacteria-faced macrophages 1.  
J. Immunol. 171, 4292-4303

HAKANSSON, S., E.E. GAYOV, R. ROSQVIST u. H. WOLF-WATZ (1996):  
The *Yersinia* YpkA Scr/Thr kinase is translocated and subsequently targeted to the inner surface of the HeLa cell plasma membrane.  
Mol. Microbiol. 20, 593-603

HAKANSSON, S., K. SCHESSER, C. PERSSON, E.E. GALYOV, R. ROSQVIST, F. HOMBLÈ u. H. WOLF-WATZ (1996):  
The YopB protein of *Yersinia pseudotuberculosis* is essential for the translocation of Yop effector proteins across the target cell plasma membrane and displays a contact dependent membrane disrupting activity.  
EMBO J. 15, 5812-5823

HANCOCK, G.E., R.W. SCHAEGLER u. T.T. MACDONALD (1986):  
*Yersinia enterocolitica* infection in resistant and susceptible strains of mice.  
Infect. Immun. 53, 26-31

HANCOCK, G.E., R.W. SCHAEGLER u. T.T. MACDONALD (1988):  
Multigenetic control of resistance to *Yersinia enterocolitica* in inbred strains of mice.  
Infect. Immun. 56, 532-533

HANDLEY, S.A., P.H. DUBE, P.A. REVELL u. V.L. MILLER (2004):  
Characterization of oral *Yersinia enterocolitica* in three different strains of inbred mice.  
Infect. Immun. 72, 1645-1656

HANSEN, C.T., F.J. JUDGE u. R.A. WHITNEY (1973):  
Catalogue of NIH rodents. National Institutes of Health. DHEW publication (NIH) 74-606, Bethesda

HANSKI, C., U. KUTSCHKA, H.P. SCHMORANZER, M. NAUMANN, A. STALLMACH, H. HAHN, H. MENGE u. E.O. RIECKEN (1989a):  
Immunohistochemical and electron microscopic study of interaction of *Yersinia enterocolitica* serotype O:8 with intestinal mucosa during experimental enteritis.  
Infect. Immun. 57, 673-678

HANSKI, C., M. NAUMANN, H. HAHN u. E.O. RIECKEN (1989b):

Determinants of invasion and survival of *Yersinia enterocolitica* in intestinal tissue. An in vivo study.  
Med. Microbiol. Immunol. (Berl). 178, 289-296

HANSKI, C., M. NAUMANN, A. GRÜTZKAU, G. PLUSCHKE, B. FRIEDRICH, H. HAHN u. E.O. RIECKEN (1991):

Humoral and cellular defense against intestinal murine infection with *Yersinia enterocolitica*.  
Infect. Immun. 59, 1106-1111

HARGREAVES, D.C., P.L. HYMAN, T.T. LU, V.N. NGO, A. BIDGOL, G. SUZUKI, Y. ZOU, D.R. LITTMANN u. J.G. CYSTER (2001):

A coordinated change in chemokine responsiveness guides plasma cell movements.  
J. Exp. Med. 194, 45-56

HARLAN-WINKELMANN (2004):

Firmeneigene, unveröffentlichte Daten.

Harlan Winkelmann GmbH, Postfach 11 61, 33176 Borcheln, Deutschland

HARTMANN, G. (2004):

Antigen-unabhängige Regulation der Effektorfunktion von NKT-Zellen und CD8 T-Zellen durch die plasmazytoide dendritische Zelle.

Sonderforschungsbereich 571, C5

im Internet: <http://sfb571.web.med.uni-muenchen.de/C5.htm>

HEESEMANN, J., U. GROSS, N. SCHMIDT u. R. LAUFS (1986):

Immunochemical analysis of plasmid encoded proteins released by enteropathogenic *Yersinia* species grown in calcium-deficient media.

Infect. Immun. 54, 561-567

HEESEMANN, J. (1987):

Chromosomal-encoded siderophores are required for mouse virulence of *Yersinia* species.

FEMS Microbiol. Lett. 48, 229-233

HEESEMANN, J. (1990):

Enteropathogene Yersinien: Pathogenitätsfaktoren und neue diagnostische Methoden.

Immun. Infekt. 18, 186-191

HEESEMANN, J. (1994):

Die Gattung Yersinien, Yersiniosen

in: H. Brandis, H.J. Eggers, W. Köhler, G. Pulverer (Hrsg.): Lehrbuch der Medizinischen Mikrobiologie, 7. Aufl. Gustav Fischer Verlag, Stuttgart, Jena, New York, S. 425-436

HEIN, J., V.A.J. KEMPF, J. DIEBOLD, N. BÜCHELER, S. PREGER, I. HORAK, A. SING, U. KRAMER u. I.B. AUTENRIETH (2000):

Interferon consensus sequence binding protein confers resistance against *Yersinia enterocolitica*.

Infect. Immun. 68, 1408-1417

HELLMAN, A., u. A.K. FOWLER (1972):

Studies of the blastogenic response of murine lymphocyte. III. Specific viral transformation.

Proc. Soc. Exp. Biol. Med. 141, 106-109

HILGERS, J., R. VAN NIE, D. IVANYI, J. HILKENS, R. MICHALIDES, J. DE MOES, R. POORT-KEESOM, V. KROEZEN, O. VON DEIMLING, R. KOMINAMI u. R. HOLMES (1985):

Genetic differences in BALB/c sublines.

Curr. Top. Microbiol. 122, 19-30

HIRASAWA, K., Y. OGISO, M. TAKEDA, M.J. LEE, S. ITAGAKI u. K. DOI (1995):

Protective effects of macrophage-derived interferon against encephalomyocarditis virus-induced diabetes mellitus in mice.

Lab. Animal Sci. 45, 652-656

HOFFMANN, R., K. VAN ERP, K. TRÜLTSCHE u. J. HEESEMANN (2004):

Transcriptional responses of murine macrophages to infection with *Yersinia enterocolitica*.

Cell. Microbiol. 6, 377-390

HOLMSTRÖM, A., R. ROSQVIST, H. WOLF-WATZ U. A. FORSBERG (1995):

Virulence plasmid encoded YopK is essential for *Yersinia pseudotuberculosis* to cause systemic infection in mice.

Infect. Immun. 63, 2269-2276

HOOBKAMP-KORSTANJE, J.A.A., u. V.M.M. STOLK-ENGELHAAR (1995):

*Yersinia enterocolitica* infection in children.

Pediatr. Infect. Dis. J. 14, 771-775



HOWARD, J.G., C. HALE u. W.L. CHAN-LIEW (1980):

Immunological regulation of experimental cutaneous leishmaniasis 1. Immunogenetic aspects of susceptibility to *Leishmania tropica* in mice.

Parasite Immunol. 2, 303-314

HUMMEL, K.P., F.L. RICHARDSON u. E. FEKETE (1966):

Anatomy.

in: Biology of the Laboratory Mouse, 2<sup>nd</sup> ed. (Green EL, ed), McGraw-Hill, New York, pp. 247-307

IRIARTE, M., u. G.R. CORNELIS (1998):

YopT, a new *Yersinia* Yop effector protein, affects the cytoskeleton of host cells.

Mol. Microbiol. 29, 915-929

IROKANULO, E.A.O., u. C.O. AKUESHI (1995):

Virulence of *Cryptococcus neoformans* serotypes A, B, C and D for four mouse strains.

J. Med. Microbiol. 43, 289-293

ISBERG, R.R. (1989):

Mammalian cell adhesion functions and cellular penetration of enteropathogenic *Yersinia* species.

Mol. Microbiol. 3, 1449-1453

ISHII, A.I., u. M. SANO (1989):

Strain-dependent differences in susceptibility of mice to experimental *Angiostrongylus costaricensis* infection.

J. Helminthol. 63, 302-306

JANEWAY, C.A., P. TRAVERS, M. WALPORT u. M. SHLOMCHIK (2002a):

Grundbegriffe der Immunologie

in: Immunologie, Aufl. 5, Spektrum Akademischer Verlag GmbH, Gustav Fischer, Heidelberg, Berlin. S. 1-36

JANEWAY, C.A., P. TRAVERS, M. WALPORT u. M. SHLOMCHIK (2002b):

Die angeborene Immunität.

in: Immunologie, 5. Aufl., Spektrum Akademischer Verlag GmbH, Gustav Fischer, Heidelberg, Berlin. S. 37-96

JANEWAY, C.A., P. TRAVERS, M. WALPORT u. M. SHLOMCHIK (2002c):

Die T-Zell-vermittelte Immunität.

in: Immunologie, 5. Aufl., Spektrum Akademischer Verlag GmbH, Gustav Fischer, Heidelberg, Berlin.  
S. 317-366

JANEWAY, C.A., P. TRAVERS, M. WALPORT u. M. SHLOMCHIK (2002d):

Die humorale Immunität.

in: Immunologie, 5. Aufl., Spektrum Akademischer Verlag GmbH, Gustav Fischer, Heidelberg, Berlin.  
S. 367-408

JANEWAY, C.A., P. TRAVERS, M. WALPORT u. M. SHLOMCHIK (2002e):

Die adaptive Immunität gegenüber Infektionen.

in: Immunologie, 5. Aufl., Spektrum Akademischer Verlag GmbH, Gustav Fischer, Heidelberg, Berlin.  
S. 409-455

JANG, M.H., M.-N. KWEON, K. IWATANI, M. YAMAMOTO, K. TERAHARA, C. SASAKAWA, T. SUZUKI, T. NOCHI, Y. YOKOTA, P.D. RENNERT, T. HIROI, H. TAMAGAWA, H. IJIMA, J. KUNISAWA, Y. YUKI u. H. KIYONO (2004):

Intestinal villous M cells: an antigen entry site in the mucosal epithelium.

Proc. Natl. Acad. Sci. USA 101, 6110-6115

JENSON, A.B., D.E. GROFF, P.J. MCCONAHEY u. F.J. DIXON (1976):

Transmission of murine leukemia virus (Scripps) from parent to progeny mice as determined by P30 antigenemia.

Cancer Res. 36, 1228-1232

JOHNSON, A.P., M. TUFFREY u. D. TAYLOR-ROBINSON (1989):

Resistance of mice to genital infection with *Neisseria gonorrhoeae*.

J. Med. Microbiol. 30, 33-36

JUNGMANN, P., J.L. GUENET, P.A. CAZENAVE, A. COUTINHO u. M. HUERRE (1996):

Murine acariasis: I. Pathological and clinical evidence suggesting cutaneous allergy and wasting syndrome in BALB/c mouse.

Res. Immunol. 147, 27-38

KAGIYAMA, N., A. TAKAKURA, K. KOYOMA, E. TERADA u. Y. SAKURIA (1991):

Detection of mouse hepatitis virus antibody by protein A-ELISA in 6 prevalent inbred strains or outbred stocks of mice.

Lab. Anim. 25, 106-109

KAPPERUD, G. (1982):

Enterotoxinproduction at 4°, 22°, and 37°C among *Yersinia enterocolitica*-like bacteria.

Acta. Pathol. Microbiol. Scand., Sect. B., 90, 185-189

KAPPERUD, G., u. G. LANGELAND (1981):

Enterotoxin production at refrigeration temperature by *Yersinia enterocolitica* and *Yersinia enterocolitica*-like bacteria.

Curr. Microbiol. 5, 119-122

KATAOKA, Y., M. HARITANI, M. MORI, M. KISHIMA, C. SUGIMOTO, M. NAKAZAWA u. K. YAMAMOTO (1991):

Experimental infections of mice and pigs with *Streptococcus suis* type 2.

J. Vet. Med. Sci. 53, 1043-1049

KAYSER, F.H. (1989):

*Yersinia enterocolitica*.

in: F.H. Kayser, K.A. Bienz, J. Eckert u. J. Lindemann (Hrsg.): Medizinische Mikrobiologie, Immunologie, Bakteriologie, Mykologie, Virologie, Parasitologie, 7. Auflage, S. 197

KEET, E.E. (1974):

*Yersinia enterocolitica* septicemia. Source of infection and incubation period identified.

N. Y. State J. Med. 74, 2226-2230

KÖHLER, H. (1982a):

Unspezifische innere Krankheitsbedingungen.

in: L.-C. Schulz (Hrsg.): Lehrbuch der Allgemeinen Pathologie. T. Kitt, Ferdinand Enke Verlag, Stuttgart, 9. Auflage, S. 32

KÖHLER, H. (1982b):

Unspezifische innere Krankheitsbedingungen.

in: L.-C. Schulz (Hrsg.): Lehrbuch der Allgemeinen Pathologie. T. Kitt, Ferdinand Enke Verlag, Stuttgart, 9. Auflage, S. 38

KONI, P.A., S.K. JOSHI, U. TEMANN, D. OLSON, L. BURKLY u. R.A. FLAVELL (2001):

Conditional vascular cell adhesion molecule 1 deletion in mice: impaired lymphocyte migration to bone marrow.

J. Exp. Med. 193, 741-753

KOMUKAI, Y., H. AMAO, N. GOTO, Y. KUSAJIMA, T. SAWADA, M. SAITO u. K.W. TAKAHASHI (1999):

Sex differences in susceptibility of IRC mice to oral infection with *Corynebacterium kutscheri*.  
Exper. Anim. 48, 37-42

KUNSTYR, I., u. H.G.W. LEUENBERGER (1975):

Gerontological data on C57BL/6 mice. I. Sex differences in survival curves.  
J. Gerontol. 30, 157-162

KURIHARA, Y., T. NAITO, K. OBAYASHI, M. HIRASAWA, Y. KURIHARA Y u. K. MORIWAKI (1991):

Caries susceptibility in inbred mouse strains and inheritance patterns in F1 and backcross (N2) progeny from strains with high and low caries susceptibility.  
Caries Res. 25, 341-346

LASKAY, T., A. DIEFENBACH, M. ROLLINGHOFF u. V. SOLBACH (1995):

Early parasite containment is decisive for resistance to *Leishmania major* infection.  
Eur. J. Immunol. 25, 2220-2227

LAW, L.W. (1966):

Studies of thymic function with emphasis on the role of the thymus in oncogenesis.  
Cancer Res. 26, 551-574

LE PREVOST, C., J.L. VIRELIZIER u. J.M. DUPUY (1975):

Immunopathology of mouse hepatitis virus type 3 infection. III. Clinical and virologic observation of a persistent viral infection.  
J. Immunol. 115, 640-643

LEE, B.K., u. E.M. EICHER (1990):

Segregation patterns of endogenous mouse mammary tumor viruses in five recombinant inbred strain sets.  
J. Virol. 64, 4568-4572

LEE, L.A., A. R. GERBER, D.R. LONSWAY, J.D. SMITH, G.P. CARTER, N.D. POHR, C.M. PARRISH, R.K. SIKES, R.J. FINTON u. R.W. TAUXE (1990):

*Yersinia enterocolitica* O:3 infection in infants and children associated with the household preparation of chitterlings.  
N. Engl. J. Med. 322, 984-987

LES, E.P. (1969):

Personal communication and effect of pasteurized diets on lifespan of inbred mice.

AALAS. Publication 69-72, Abstract 10

LEUKER, C.E., M. LABOW, W. MÜLLER u. N. WAGNER (2001):

Neonatally induced inactivation of the vascular cell adhesion molecule 1 gene impairs B cell localization and T cell-dependent humoral immune response.

J. Exp. Med. 193, 755-767

LEUNG, K.Y., B. S. REISNER u. S.C. STRALEY (1990):

YopM inhibits platelet aggregation and is necessary for virulence of *Yersinia pestis* in mice.

Infect. Immun. 58, 3262-3271

LEVINE, S., u. R. SOWINSKI (1973):

Experimental allergic encephalomyelitis in inbred and outbred mice.

J. Immunol. 110, 139-143

LIVY, D.J., u. D. WAHLSTEN (1997):

Retarded formation of the hippocampal commissure in embryos from mouse strains lacking a corpus callosum.

Hippocampus 7, 2-14

LOPEZ, C. (1975):

Genetics of natural resistance to herpes virus infections in mice.

Nature 258, 152-153

MACARIO, A.J.L., W. STAHL u. R.M. MILLER (1980):

Lymphocyte subpopulations and function in chronic murine toxoplasmosis. II. Cyclic immunosuppression in genetic-low-responder mice.

Cell. Immunol. 56, 235-239

MATYNIAK, J.E., u. S.L. REINER (1995):

T helper phenotype and genetic susceptibility in experimental lyme disease.

J. Exp. Med. 181, 1251-1254

MAYBERRY, L.F., G.A. CONDER, J.R. BRISTOL, S.S. JOHNSON u. S. MODRIC (1993):

Absence of typical *Nippostrongylus brasiliensis* self-cure in putative BALB/c mice.

J. Parasitol. 79, 962-963

MCIVER, M.A., u. R.M. PIKE (1934):

Chronic glanders-like infection of face caused by an organism resembling *Flavobacterium pseudomallei*  
in: Clinical miscellany, Vol. 1, Mary Imogene Basset Hospital, Cooperstone, N.Y., Whitmore, S. 16-21

MCLAREN, A., u. A. TAIT (1969):

Cytoplasmic isocitrate dehydrogenase variation within the C3H inbred strain.  
Genet. Res. 14, 93

MOHAMMADI, M., R. REDLINE, J. NEDRUD u. S. CZINN (1996):

Role of the host in pathogenesis of Helicobacter-associated gastritis: *H. felis* Infection of inbred and congenic mouse strains.  
Infect. Immun. 64, 238-245

MONROY-OSTRIA, A., I. FUENTES-FRAGA., C. GARCIA-FLORES u. L. FAVILA-CASTILLO (1994):

Infection of BALB/c, C57Bl/6 mice and F1 hybrid CB6F1 mice with strains of *Leishmania mexicana* isolated from Mexican patients with localized or diffuse cutaneous leishmaniasis.  
Archives of Medical Research 25, 401-406

MORA, J.R., M.R. BONO, N. MANJUNATH, W. WENINGER, L.L. CAVANAGH, M. ROSEMBLATT  
u. U.H. VON ANDRIAN (2003):

Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells.  
Nature 424, 88-93

MORISSETTE, C., E. SKAMENE u. F. GERVAIS (1995):

Endobronchial inflammation following *Pseudomonas aeruginosa* infection in resistant and susceptible strains of mice.  
Infect. Immun. 63, 1718-1724

MOUMARIS, M., C. SESTIER, F. MILTGEN, A. HALBREICH, M. GENTILINI u. D. SABOLOVIC  
(1995):

Effect of fatty acid treatment in cerebral malaria-susceptible and nonsusceptible strains of mice.  
J. Parasitol. 81, 997-999

MOUSE GENOME SEQUENCING CONSORTIUM (2002):

Initial sequencing and comparative analysis of the mouse genome.  
Nature 420, 520-562

MULLER-SIEBURG, C.E., u. R. RIBLET (1996):

Genetic control of the frequency of hematopoietic stem cells in mice: Mapping of a candidate locus to chromosome 1.

J. Exp. Med. 183, 1141-1150

MURRAY, W.S., u. C.C. LITTLE (1967):

Genetic studies of carcinogenesis in mice.

J. Natl. Cancer I. 38, 639-656

NAGASAWA, H., M. MIYAMOTO u. M. FUJIMOTO (1973):

Reproductivity in inbred strains of mice and project for their efficient production.

Exp. Anim. Tokyo. 22, 119-126

NAKAYA, K., M. NAKAO u. A. ITO (1997):

*Echinococcus multilocularis*: Mouse strain difference in hydatid development.

J. Helminthol. 71, 53-56

NAKTIN, J., u. K.G. BEAVIS (1999):

*Yersinia enterocolitica* and *Yersinia pseudotuberculosis*.

Clin. Lab. Med. 19, 523-536

NATTERMANN, H., F. HORSCH, M. SEEGER, W. DEE u. G. ORTMANN (1985):

Die *Yersinia enterocolitica*-Infektion beim landwirtschaftlichen Nutztier.

Mh. Vet. Med. 41, 23-26

NATTERMANN, H., F. HORSCH, W. DEE , C. SCHLINGMANN u. H. SCHLINGMANN (1986):

Epizootiologie der *Yersinia enterocolitica* in einem Schweinebestand.

Mh. Vet. Med. 40, 366-370

NEAL, R.A., u. W.G. HARRIS (1975):

Attempts to infect inbred strains of rats and mice with *Entamoeba histolytica*.

Trans. R. Soc. Trop. Med. Hyg. 69, 429-430

NELSON, J.F., K. KARELUS, L.S. FELICIO u. T.E. JOHNSON (1992):

Genetic influences on oestrous cyclicity in mice: evidence that cycle length and frequency are differentially regulated.

J. Reprod. Fertil. 94, 261-268

NEUBAUER H., A. HENSEL, S. ALEKSIC u. H. MEYER (2000):  
Identification of *Yersinia enterocolitica* within the genus *Yersinia*.  
System. Appl. Mikrobiol. 23, 58-62

NEUBAUER, H., L.D. SPRAGUE, H. SCHOLZ u. A. HENSEL (2001a):  
*Yersinia enterocolitica*-Infektionen: 1. Bedeutung bei Tieren.  
Berl. Munch. Tierarztl. Wschr. 114, 8-12

NEUBAUER, H., L.D. SPRAGUE, H. SCHOLZ u. A. HENSEL (2001b):  
*Yersinia enterocolitica*-Infektionen: 2. Bedeutung beim Menschen.  
Berl. Munch. Tierarztl. Wschr. 114, 81-87

NEUHAUS, I.M., C.S. SOMMARDAHL, D.K. JOHNSON u. D.R. BEIER (1997):  
Microsatellite DNA variants between the FVB/N and C3HeB/FeJLe and C57BL/6J mouse strains.  
Mamm. Genome 8, 506-509

NICOL, T., L.J. BILBEY, L.M. CHARLES, J.L. CORDINGLEY u. B. VERNON-ROBERTS (1964):  
Oestrogen: the natural stimulant of body defense.  
J. Endocrinol. 30, 277-291

NIEWIESK, S., U. BRINCKMANN, B. BANKAMP, S. SIRAK, U.G. LIEBERT u. V. TER MEULEN  
(1993):  
Susceptibility to measles virus-induced encephalitis in mice correlates with impaired antigen presentation to  
cytotoxic T lymphocytes.  
J. Virol. 67, 75-81

NICKLAS, W. (1999):  
Microbiological standardization of laboratory animals.  
Berl. Munch. Tierarztl. Wochenschr. 112, 201-210

N.N. (1999):  
Robert Koch Institut  
Stellungnahme des AK Blut: *Yersinia enterocolitica*.  
Bundesgesundheitsbl. 42, 613-621



OHL, L., G. HENNING, S. KRAUTWALD, M. LIPP, S. HARDTKE, G. BERNHARDT, O. PABST u. R. FÖRSTER (2003):

Cooperating mechanisms of CXCR5 and CCR7 in development and organization of secondary lymphoid organs.

J. Exp. Med. 197, 1199-1204

OKADA, T., V.N. NGO, E.H. EKLAND, R. FÖRSTER, M. LIPP, D.R. LITTMANN u. J.G. CYSTER (2002):

Chemokine requirements for B cell entry to lymph nodes and Peyer's patches.

J. Exp. Med. 196, 65-75

PABST, O., L. OHL, M. WENDLAND, M. WURBEL, E. KREMMER, B. MALISSEN u. R. FÖRSTER (2004):

Chemokine receptor CCR9 contributes to the localization of plasma cells to the small intestine.

J. Exp. Med. 199, 411-416

PABST O., H. HERBRANDT, T. WORBS, M. FRIEDRICHSEN, S. YAN, M.W. HOFFMANN, H. KÖRNER, G. BERNHARDT, R. PABST u. R. FORSTER (2005):

Cryptopatches and isolated lymphoid follicles: dynamic lymphoid tissues dispensable for the generation of intraepithelial lymphocytes.

Eur. J. Immunol. 35, 98-107

PAERREGAARD, A., F. ESPERSEN, O.M. JENSEN u. M. SKURNIK (1991):

Interaction between *Yersinia enterocolitica* and rabbit ileal mucus: growth, adhesion, penetration, and subsequent changes in surface hydrophobicity and ability to adhere to ileal brush border membrane vesicles.

Infect. Immun. 59, 253-260

PALFRAMAN, R., S. JUNG, G. CHENG, W. WENINGER, Y., LOU, M. DORF, D.R. LITTMAN, B.J. ROLLINS, H. ZWEERINK, A. ROT u. U.H. VON ANDRIAN (2001):

Inflammatory chemokine transport and presentation in HEV: a remote control mechanism for monocyte recruitment to lymph nodes in inflamed tissues.

J. Exp. Med. 194, 1361-1373

PASCHE, B., S. KALAYDJIEV, T.J. FRANZ, E. KREMMER, V. GAILUS-DURNER, H. FUCHS, M. HRABE DE ANGELIS, A. LENGELING u. D.H. BUSCH (2005):

Sex-dependent susceptibility to *Listeria monocytogenes* infection is mediated by differential interleukin-10 production.

Infect. Immun. 73, 5952-5960

PELED, A., O. KOLLET, T. PONOMARYOV, I. PETIT, S. FRANITZA, V. GRABOVSKY, M.M. SLAV, A. NAGLER, O. LIDER, R. ALON, D. ZIPORI u. T. LAPIDOT (2000):

The chemokine SDF-1 activates the integrins LFA-1, VLA-4, and VLA-5 on immature human CD34+ cells: role in transendothelial/stromal migration and engraftment of NOD/SCID mice.

Blood 95, 3289-3296

PEPE, J.F., M.R. WACHTEL, E. WAGAR u. V.L. MILLER (1995):

Pathogenesis of defined invasion mutants of *Yersinia enterocolitica* in a BALB/c mouse model of infection.

Infect. Immun. 63, 4837-4848

PERRY, L.L., u. D.L. LODMELL (1991):

Role of CD4+ and CD8+ T cells in murine resistance to street rabies virus.

J. Virol. 65, 3429-3434

PIERSON, D.E., u. S. FALKOW (1993):

The ail gene of *Yersinia enterocolitica* has a role in the ability of the organism to survive serum killing.

Infect. Immun. 61, 1846-1852

POECK, H., M. WAGNER, J. BATTIANY, S. ROTHENFUSSE, D. WELLISCH, V. HORNUNG, B. JAHRSDORFER, T. GIESE, S. ENDRES u. G. HARTMANN (2004):

Plasmacytoid dendritic cells, antigen and CpG-C license human B cells for plasma cell differentiation and immunoglobulin production in the absence of T-cell help.

Blood 103, 3058-3065

PRICE, P., K.S. EDDY, J.M. PAPADIMITRIOU, D.L. FAULKNER u. G.R. SHELLAM (1991):

Genetic determination of cytomegalovirus-induced and age-related cardiopathy in inbred mice. Characterization of infiltrating cells.

Am. J. Pathol. 138, 59-67

PSCHYREMBEL (1994a):

Klinisches Wörterbuch.

Walter de Gruyter Verlag, Berlin, New York, 257. Auflage, S.116-117

PSCHYREMBEL (1994b):

Klinisches Wörterbuch.

Walter de Gruyter Verlag, Berlin, New York, 257. Auflage, S.709

PSCHYREMBEL (1994c):

Klinisches Wörterbuch.

Walter de Gruyter Verlag, Berlin, New York, 257. Auflage, S.927

RILEY, G., u. S. TOMA (1986):

Detection of pathogenic *Yersinia enterocolitica* by using Congo-Red-magnesium Oxalate agar medium.

J. Clin. Microbiol. 27, 213-214

ROBSON, H.G., u. S.I. VAS (1972):

Resistance of mice to *Salmonella typhimurium*.

J. Infect. Dis. 126, 378-380

ROSE, F.B., C.J. CAMP u. E.J. ANTES (1987):

Family outbreak of fatal *Yersinia enterocolitica* pharyngitis.

Am. J. Med. 82, 636-637

ROSQVIST, R., A. FORSBERG, M. RIMPILÄINEN, T. BERGMAN u. H. WOLF-WATZ (1990):

The cytotoxic protein YopE of *Yersinia* obstructs the primary host defense.

Mol. Microbiol. 4, 657-667

ROWLAND, E.C., M.G. LOZYKOWSKI u. T.S. MCCORMICK (1992):

Differential cardiac histopathology in inbred mouse strains chronically infected with *Trypanosoma cruzi*.

J. Parasitol. 78, 1059-1066

RUCKDESCHEL, K., A. ROGGENKAMP, V. LAFONT, P. MANGEAT, J. HEESEMANN u. B. ROUOT (1997):

Interaction of *Yersinia enterocolitica* with macrophages leads to macrophage cell death through apoptosis.

Infect. Immun. 65, 4813-4821

RUCKDESCHEL, K., A. ROGGENKAMP, S. SCHUBERT u. J. HEESEMANN (1996):

Differential contribution of *Yersinia enterocolitica* virulence factors to evasion of microbicidal action of neutrophils.

Infect. Immun. 64, 724-733

RUEHL-FEHLERT, C., B. KITTEL, G. MORAWIETZ, P. DESLEX, C. KEENAN, C.R. MAHRT, T. NOLTE, M. ROBINSON, B.P. STUART u. U. DESCHL (2003):

Revised guides for organ sampling and trimming in rats and mice - part 1.

Exp. Toxicol. Pathol. 55, 91-106

- RUIZ-BRAVO, A., E. MORENO, A. SAMPREDO u. M. JIMINEZ-VALERA (1999):  
 Experimental infection of mice with *Yersinia enterocolitica* serotype O9 by oral and parenteral routes: spreading and enterotropism of virulent yersiniae.  
 Curr. Microbiol. 38, 257-263
- RUSSELL, E.S., E.F. NEUFELD u. C.T. HIGGINS (1951):  
 Comparison of normal blood picture of young adults from 18 inbred strains of mice.  
 Proc. Soc. Exp. Biol. Med. 78, 761-766
- SADARANGANI, C., E. SKAMENE u. P.A.L. KONGSHAVEN (1980):  
 Cellular basis for genetically determined enhanced resistance of certain mouse strains to Listeriosis.  
 Infect. Immun. 28, 381-386
- SAKAGAMI, T., M. DIXON, J. OROURKE, R. HOWLETT, F. ALDERUCCIO, J. VELLA, T. SHIMOYAMA u. A. LEE (1996):  
 Atrophic gastric changes in both *Helicobacter felis* and *Helicobacter pylori* infected mice are host dependent and separate from antral gastritis.  
 Gut 39, 639-648
- SARKER, M.R., C. NEYT, I. STAINIER u. G.R. CORNELIS (1998):  
 The *Yersinia* Yop virulon: LcrV is required for extrusion of the translocators YopB and YopD.  
 J. Bacteriol. 180, 1207-1214
- SAUVONNET, N., B. PRADET-BALADE, J. GARCIA-SANZ u. G.R. CORNELIS (2002):  
 Regulation of mRNA expression in macrophages after *Yersinia enterocolitica* infection.  
 J. Biol. Chem. 277, 25133-25142
- SCHELLER, L.F., R.A. WIRTZ u. A.F. AZAD (1994):  
 Susceptibility of different strains of mice to hepatic infection with *Plasmodium berghei*.  
 Infect. Immun. 62, 4844-4847
- SCHIEMANN, D.A. (1989):  
*Yersinia enterocolitica* und *Yersinia pseudotuberculosis*.  
 in: M.P. Doyle (Hrsg.): Foodborne bacterial pathogens, Marcel Dekker Verlag, New York, S. 601-672
- SCHLEIFSTEIN, J., u. M.B. COLEMAN (1939):  
 An unidentified microorganism resembling *B. lignieri* and *Past. pseudotuberculosis* and pathogenetic for man.  
 N. Y. State J. Med. 39, 1749-1753

SCOTT, P., A. EATON, W.C. GAUSE, X.D. ZHOU u. B. HONDOWICZ (1996):

Early IL-4 production does not predict susceptibility to *Leishmania major*.

Exp. Parasitol. 84, 178-187

SELBITZ, H.-J. (1992):

Lehrbuch der veterinärmedizinischen Bakteriologie

Gustav Fischer Verlag, Jena

SELBITZ; H.-J. (2002):

*Yersinia*

in: M. Rolle u. A. Mayr (Hrsg.): Medizinische Mikrobiologie, Infektions- und Seuchenlehre, Enke Verlag, Stuttgart, 7. Aufl., S. 478-481

SING, A., D. ROST, N. TVARDOVSKAIA, A. ROGGENKAMP, A. WIEDEMANN, C.J. KIRSCHNING, M. AEPFELBACHER u. J. HEESEMANN (2002):

*Yersinia* V-antigen exploits toll-like receptor 2 and CD14 for interleukin-mediated immunosuppression.

J. Exp. Med. 196, 1017-1024

SHEPARD, C.C., u. J.A. HABAS (1967):

Relation of infection to tissue temperature in mice infected with *Mycobacterium marinum* and *Mycobacterium leprae*.

J. Bacteriol. 93, 790-796

SING, A., N. TVARDOVSKAIA, D. ROST, C.J. KIRSCHNING, H. WAGNER u. J. HEESEMANN (2003):

Contribution of toll-like receptors 2 and 4 in an oral *Yersinia enterocolitica* mouse infection model.

Int. J. Med. Microbiol. 293, 341-348

SING, A., A. ROGGENKAMP, A.M. GEIGER u. J. HEESEMANN (2002a):

*Yersinia enterocolitica* evasion of the host innate immune response by V antigen-induced IL-10 production of macrophages is abrogated in IL-10-deficient mice.

J. Immunol. 168, 1315-1321

SING, A., D. ROST, N. TVARDOVSKAIA, A. ROGGENKAMP, A. WIEDEMANN, C.J. KIRSCHNING, M. AEPFELBACHER u. J. HEESEMANN (2002b):

*Yersinia* V-antigen exploits toll-like receptor 2 and CD14 for interleukin 10-mediated immunosuppression.

J. Exp. Med. 196, 1017-1024

SKURNIK, M., I. BÖLN, H. HEIKKINEN, S. PIHA u. H. WOLF-WATZ (1984):

Virulence plasmid-associated autoagglutination in *Yersinia* spp.

J. Bacteriol. 158, 1033-1036

SLINGSBY, J.H., M.B. HOGARTH, E. SIMPSON, M.J. WALPORT u. B.J. MORLEY (1996):

New microsatellite polymorphisms identified between C57BL-6, C57BL-10 and C57BL-KsJ inbred mouse strains.

Immunogenetics 43, 72-75

SOLTESZ, L., C. SCHALEN u. P.-A. MARDH (1980):

An effective, selective medium for *Yersinia enterocolitica* containing sodium oxalate.

Acta Pathol. Microbiol. Scand. Sect. B. 88, 11-16

STENGER, S., H. THÜRING, M. RÖLLINGHOFF u. C. BOGDAN (1994):

Tissue expression of inducible nitric oxide synthase is closely associated with resistance to *Leishmania major*.

J. Exp. Med. 180, 783-793

STENHOUSE, M.A., u. L.V. MILNER (1982):

*Yersinia enterocolitica*: a hazard in blood transfusion.

Transfusion 22, 396-398

STEVENS, L.C. (1973):

A new inbred subline of mice (129/ter, Sv) with a high incidence of spontaneous congenital testicular teratomas.

J. Natl. Cancer I. 50, 235-242

STORER, J.B. (1966):

Longevity and gross pathology at death in 22 inbred strains of mice.

J. Gerontol. 21, 404-409

STRALEY, S.C., E. SKRZYPEK, G.V. PLANO u. J.B. BLISKA (1982):

Yops of *Yersinia* spp. pathogenic for humans.

Infect. Immun. 61, 3103-3110

TAM, P.E. u. R.P. MESSNER (1996):

Genetic-determinants of susceptibility to coxsackievirus B1-induced chronic inflammatory myopathy - effects of host background and major histocompatibility complex genes.

J. Lab. Clin. Med. 128, 279-289

TANAKA, S., M. SATO, T. TANIGUCHI u. Y. YOKOMIZO (1994):

Histopathological and morphometrical comparison of granulomatous lesions in BALB/c and C3H/HeJ mice inoculated with *Mycobacterium paratuberculosis*.

J. Comp. Pathol. 110, 381-388

TANG, X., S.M. ORCHARD u. L.D. SANFORD (2002):

Home cage activity and behavioural performance in inbred and hybrid mice.

Behav. Brain Res. 136, 555-569

TENNANT, J.R. (1965):

Susceptibility and resistance to viral leukemogenesis in the mouse. I. Biological definition of the virus.

J. Natl. Cancer I. 34, 625-632

TIZARD, I.R. (2004a):

The defense of the body.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 1-9

TIZARD, I.R. (2004b):

How inflammation is triggered.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 10-23

TIZARD, I.R. (2004c):

Neutrophils and their products.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 24-34

TIZARD, I.R. (2004d):

Macrophages and the later stages of inflammation.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 35-48

TIZARD, I.R. (2004e):

T helper cells and their response to antigens.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 105-116

TIZARD, I.R. (2004f):

Cytokines and the immunesystem.

in: Veterinary Immunology: an Introduction, Seventh Edition, Elsevier, USA, pp. 133-144

VANCOTT, J.L., T. KOBAYASHI, M. YAMAMOTO, S. PILLAI, J.R. MCGHEE, u. H. KIYONO (1996):  
Induction of pneumococcal polysaccharide-specific mucosal immune responses by oral immunization.  
*Vaccine* 14, 392-398

VANTRAPPEN, G.H., O. AGG, E. PONETTE, K. GEBERS u. P. BERTRAND (1977):  
*Yersinia* enteritis and enterocolitis: gastroenterological aspects.  
*Gastroenterology* 72, 220-227

VAZQUEZ-TORRES, A., B.A. VALLANCE, M.A. BERGMAN, B.B. FINLAY, B.T. COOKSON,  
J. JONES-CARSON u. F.C. FANG (2004):  
Toll-Like Receptor 4 Dependence of Innate and Adaptive Immunity to *Salmonella*: Importance of the  
Kupffer Cell Network.  
*J. Immunol.* 172, 6202-6208

VIVEROS-PAREDES, J.M., A.M. PUEBLA-PEREZ, O. GUTIERREZ-CORONADO, L. SANDOVAL-  
RAMIREZ u. M.M. VILLASENOR-GARCIA (2006):  
Dysregulation of the Th1/Th2 cytokine profile is associated with immunosuppression induced by  
hypothalamic-pituitary-adrenal axis activation in mice.  
*Int. Immunopharmacol.* 6 (5), 774-81

WAHLSTEN, D., u. P.M. SCHALOMON (1994):  
A new hybrid mouse model for agenesis of the corpus callosum.  
*Behav. Brain Res.* 64, 111-117

WAHLSTEN, D., u. B. BULMANFLEMING (1994):  
Retarded growth of the medial septum: A major gene effect in acallosal mice.  
*Dev. Brain Res.* 77, 203-214

WALKER, S.J., u. A. GILMOUR (1986)  
A comparison of media and methods for the recovery of *Yersinia enterocolitica* and *Yersinia enterocolitica*-  
like bacteria from milk containing simulated raw milk microfloras.  
*J. Appl. Bacteriol.* 60, 175-183

WARNOCK, R.A., S. ASKARI, E.C. BUTCHER u. U.H. VON ANDRIAN (1998):  
Molecular mechanisms of lymphocyte homing to peripheral lymph nodes.  
*J. Exp. Med.* 187, 205-216



WAUTERS, G. (1973):

Improved methods for the isolation and the recognition of *Yersinia enterocolitica*.  
Contr. Microbiol. Immunol. 2, 68-70

WAUTERS, G., K. KONDOLO u. M. JANSSENS (1987):

Revised biogrouping scheme of *Yersinia enterocolitica*.  
Contrib. Microbiol. Immunol. 9, 14-21

WAUTERS, G., M. JANSSENS, A.G. STEIGERWALT u. D.J. BRENNER (1988):

New enrichment methods for pathogenic *Yersinia enterocolitica* serogroup O:3 from pork.  
Appl. Environ. Microbiol. 54, 851-854

WEHRLI, N., D.F. LEGLER, D. FINKE, K.M. TOELLNER, P. LOETSCHER, M. BAGGLIOLINI,  
I.C. MACLENNAN u. H. ACHA-ORBEA (2001):

Changing responsiveness to chemokines allows plasmablasts to leave lymph nodes.  
Eur. J. Immunol. 31, 609-616

WHITE, P., S.A. LIEBHABER u. N.E. COOKE (2002):

129X1/SvJ mouse strain has a novel defect in inflammatory cell recruitment.  
J. Immunol. 168, 869-874

WIESNER, E., u. R. RIBBECK (2000a):

Lexikon der Veterinärmedizin.  
Enke Verlag, Stuttgart, 4. Auflage, S. 1600-1601

WIESNER, E., u. R. RIBBECK (2000b):

Lexikon der Veterinärmedizin.  
Enke Verlag, Stuttgart, 4. Auflage, S. 700

WILLIAMS, N.M., u. P.J. TIMONEY (1994):

Variation in susceptibility of ten mouse strains to infection with a strain of *Ehrlichia risticii*.  
J. Comp. Pathol. 110, 137-143

WIMER, R.E., C.C. WIMER u. T.H. RODERICK (1969):

Genetic variability in forebrain structures between inbred strains of mice.  
Brain Res. 16, 257-264

WINBLAD, S. (1982):

*Yersinia enterocolitica*.

in: H. Blobel u. T. Schliesser (Hrsg.): Handbuch der bakteriellen Infektionen bei Tieren, Band IV, Gustav Fischer Verlag, Jena. S.519-535

WUTHE, H.H., u. S. ALEKSIC (1997):

*Yersinia enterocolitica* Serovar 2a, 2b, 3:b,c Biovar 5 bei Infektionen von Feldhase und Schaf.

Berl. Münch. Tierärztl. Wschr. 110, 176-177

XIDIEH, C. F., L.M. SINGER-VERMES, V.L.G. CALICH u. E. BURGER (1994):

Plasma amylase levels as a marker of disease severity in an isogenic murine model of paracoccidiomycosis.

J. Med. Vet. Mycol. 32, 37-45

YAMAMOTO, Y., H. SAITO, T. SETOGAWA u. H. TOMIOKA (1991):

Sex differences in host resistance to *Mycobacterium marinum* infection in mice.

Infect. Immun. 59, 4089-4096

YANCEY, A.L., H.L. WATSON, S.C. CARTNER u. J.W. SIMECKA (2001):

Gender is a major factor in determining the severity of *Mycoplasma* respiratory disease in mice.

Infect. Immun. 69, 2865-2871

ZHAO, Y.X., G. LAJOIE, H. ZHANG, B. CHIU, U. PAYNE u. R.D. INMAN (2000):

Tumor necrosis factor p55-deficient mice respond to acute *Yersinia enterocolitica* infection with less apoptosis and more effective host resistance.

Infect. Immun. 68, 1243-1251