

5.6 References

- ASHFORD, D.A., WHITNEY, E., RAGHUNATHAN, P. & COSIVI, O. 2001. Epidemiology of selected mycobacteria that infect humans and other animals. *Revue Scientifique et Technique*, 20:325-337.
- BAEK, H., SUK, K-H., KIM, Y-H. & CHA, S. 2002. An improved helper phage system for efficient isolation of specific antibody molecules in phage display. *Nucleic Acids Research*, 30:e18.
- BLANC, P., DUBUS, J.C., GARNIER, J.M., BOSDURE, E. & MINODIER, P. 2008. Utility of interferon gamma assays for diagnosis of tuberculosis in children. *Archives de Pédiatrie*, 15:75-82.
- BRADBURY, A.R. & MARKS, J.D. 2004. Antibodies from phage antibody libraries. *Journal of Immunological Methods*, 290:29-49.
- BUDDLE, B.M., SKINNER, M.A. & CHAMBERS, M.A. 2000. Immunological approaches to the control of tuberculosis in wildlife reservoirs. *Veterinary Immunology and Immunopathology*, 74:1-16.
- BURTON, D. 1995. Phage display. *Immunotechnology*, 1:87-94.
- CHILIZA, T.E., VAN WYNGAARDT, W. & DU PLESSIS, D.H. 2008. Single-chain antibody fragments from a display library derived from chickens immunized with a mixture of parasite and viral antigens. *Hybridoma*, 27:413-421.
- CORNER, L.A., STEVENSON, M.A., COLLINS, D.M. & MORRIS, R.S. 2003. The re-emergence of *Mycobacterium bovis* infection in brushtail possums (*Trichosurus vulpecula*) after localised possum eradication. *New Zealand Veterinary Journal*, 51:73-80.
- COUSINS, D.V. 2008. Bovidae - Bovine tuberculosis, in *Manual of diagnostic tests and vaccines for terrestrial animals - Summary*, edited by Office International des Epizooties: 683-697.

- DALLEY, D., DAVÉ, D., LESELLIER, S., PALMER, S., CRANSHAW, T., HEWINSON, R.G. & CHAMBERS, M. 2008. Development and evaluation of a gamma-interferon assay for tuberculosis in badgers (*Meles meles*). *Tuberculosis*, 88:235-243.
- DALOVISIO, J.R., STETTER, M. & MIKOTA-WELLS, S. 1992. Rhinoceros' rhinorrhea: cause of an outbreak of infection due to airborne *Mycobacterium bovis* in zookeepers. *Clinical Infectious Diseases*, 15:598-600.
- DAVIES, E.L., SMITH, J.S., BIRKETT, C.R., MANSER, J.M., ANDERSON-DEAR, D.V. & YOUNG, J.R. 1995. Selection of specific phage-display antibodies using libraries derived from chicken immunoglobulin genes. *Journal of Immunological Methods*, 186:125-135.
- DE LISLE, G.W., BENGIS, R.G., SCHMITT, S.M. & O'BRIEN, D.J. 2002. Tuberculosis in free-ranging wildlife: detection, diagnosis and management. *Revue Scientifique et Technique*, 21:317-334.
- DESEM, N. & JONES, S.L. 1998. Development of a human gamma interferon enzyme immunoassay and comparison with tuberculin skin testing for detection of *Mycobacterium tuberculosis* infection. *Clinical and Diagnostic Laboratory Immunology*, 5:531-536.
- ETTER, E., DONADO, P., JORI, F., CARON, A., GOUTARD, F. & ROGER, F. 2006. Risk analysis and bovine tuberculosis, a re-emerging zoonosis. *Annals of New York Academy of Sciences*, 1081:61-73.
- GREENWALD, R., LYASHCHENKO, O., ESFANDIARI, J., MILLER, M., MIKOTA, S., OLSEN, J.H., BALL, R., DUMONCEAUX, G., SCHMITT, D., MOLLER, T, PAYEUR, J.B., HARRIS, B., SOFRANKO, D., WATERS, W.R & LYASHCHENKCO, K.P. 2009. Highly accurate antibody assays for early and rapid detection of tuberculosis in African and Asian elephants. *Clinical Vaccine Immunology*, 16:605-612.
- HAMMATTT, H. 2007. Elephant Care International: TB Initiative. *Meeting of Zoos and Aquariums Committed to Conservation*:1-30.

HARRINGTON, N.P., SURUJBALLI, O.P., WATERS, W.R. & PRESCOTT, J.F. 2007. Development and evaluation of a real-time reverse transcription-PCR assay for quantification of gamma interferon mRNA to diagnose tuberculosis in multiple animal species. *Clinical and Vaccine Immunology*, 14:1563-1571.

HERRMANN, J.L., SIMONNEY, N., LAGRANGE, P.H. 2007. Advantages and drawbacks of *in vitro* interferon-gamma / T cell assays compared to the Mantoux test for the diagnosis of tuberculosis. *Archives de Pediatrie*, 14:207-211.

HOPE, J.C. & VILLARREAL-RAMOS, B. 2008. Bovine TB and the development of new vaccines. *Comparative Immunology, Microbiology and Infectious Diseases*, 21:77-100.

KOO, H.C., PARK, Y.H., AHN, J., WATERS, W.R., PALMER, M.V., HAMILTON, M.J., BARRINGTON, G., MOSAAD, A.A., PARK, K.T., JUNG, W.K., HWANG, I.Y., CHO, S.N., SHIN, S.J. & DAVIS, W.C. 2005. Use of rMPB70 protein and ESAT-6 peptide as antigens for comparison of the enzyme-linked immunosorbent, immunochromatographic, and latex bead agglutination assays for serodiagnosis of bovine tuberculosis. *Journal of Clinical Microbiology*, 43:4498-4506.

LANDOLFI, J.A., SCHULTZ, S.A., MIKOTA, S.K. & TERIO, K.A. 2009. Development and validation of cytokine quantitative, real-time RT-PCR assays for characterization of Asian elephant immune responses.

LYASHCHENKO, K.P., GREENWALD, R., ESFANDIARI, J., OLSEN, J.H., BALL, R., DUMONCEAUX, G., DUNKER, F., BUCKLEY, C., RICHARD, M., MURRAY, S., PAYEUR, J.B., ANDERSEN, P., POLLOCK, J.M., MIKOTA, S., MILLER, M., SOFRANKO, D. & WATERS, W.R. 2006. Tuberculosis in elephants: antibody responses to defined antigens of *Mycobacterium tuberculosis*, potential for early diagnosis, and monitoring of treatment. *Clinical and Vaccine Immunology*, 13:722-732.

MARKS, J.D., OUWEHAND, W.H., BYE, J.M., FINNERN, R., GORICK, B.D., VOAK, D., THORPE, S.J., HUGHES-JONES, N.C. & WINTER, G. 1993. Human antibody fragments specific for human blood group antigens from a phage-display library. *Biotechnology*, 11: 1145-1149.

MASLOW, J.N., MIKOTA, S.K., ZHU, M., ISAZA, R., PEDDIE, L.R., DUNKER, F., PEDDIE, J., RIDDLE, H. & PELOQUIN, C.A. 2005. Population pharmacokinetics of isoniazid in the treatment of *Mycobacterium tuberculosis* among Asian and African elephants (*Elephas maximus* and *Loxodonta africanum*). *Journal of Veterinary Pharmacology and Therapeutics*, 28:21-27.

MCCORMACK, W.T., TJOLKER, L.W. & THOMPSON, C.B. 1991. Avian B-cell development: generation of an immunoglobulin repertoire by gene conversion. *Annual Review of Immunology*, 9:219-241.

MICHALAK, K., AUSTIN, C., DIESEL, S., BACON, M.J., ZIMMERMAN, P. & MASLOW, J.N. 1998. *Mycobacterium tuberculosis* infection as a zoonotic disease: transmission between humans and elephants. *Emerging Infectious Diseases*, 4:283-287.

MICHEL, A.L., BENGIS, R.G., KEET, D.F., HOFMEYR, M., DE KLERK, L.M., CROSS, P.C., JOLLES, A.E., COOPER, D., WHYTE, I.J., BUSS, P. & GODFROID, J. 2006. Wildlife tuberculosis in South African conservation areas: implications and challenges. *Veterinary Microbiology*, 112:91-100.

MICHEL, A.L., HLOKWE, T.M., COETZEE, M.L., MARÉ, L. CONNOWAY, L., RUTTEN, V.P.M.G. & KREMER, K. 2008. High *Mycobacterium bovis* genetic diversity in a low prevalence setting. *Veterinary Microbiology*, 126:151-159.

MIKOTA, S.K., MILLER, M., DUMONCEAUX, G., MASLOW, J.N., TERREL, S.P., SOFRANKO, D. & LYASHCHENKO, K.P. 2008. National Tuberculosis Working Group for Zoo & Wildlife Species. *Guidelines for the control of tuberculosis in elephants*. Washington, D.C. United States Department of Agriculture, Animal and Plant Health Inspection Service, Washington, D.C. [Online] www.aphis.usda.gov/ac/Elephant/TB2003.pdf.

OKAMOTO, T., MUKAI, Y., YOSHIOKA, Y., SHIBATA, H., KAWAMURA, M., YAMAMOTO, Y., NAKAGAWA, S., KAMADA, H., HAYAKAWA, T., MAYUMI, T. & TSUTSUMI, Y. 2004. Optimal construction of non-immune scFv phage display libraries from mouse bone marrow and spleen established to select specific scFvs efficiently binding to antigen. *Biochemical and Biophysical Research Communications*, 323:583-591.

PELOQUIN, C.A., MASLOW, J.N., MIKOTA, S.K., FORREST, A., DUNKER, F., ISAZA, R., PEDDIE, L.R., PEDDIE, J. & ZHU, M. 2006. Dose selection and pharmacokinetics of rifampicin in elephants for the treatment of tuberculosis. *Journal of Veterinary Pharmacology and Therapeutics*, 29:581-585.

POLLOCK, J.M. & ANDERSEN, P. 1997. The potential of the ESAT-6 antigen secreted by virulent mycobacteria for specific diagnosis of tuberculosis. *Journal of Infectious Diseases*, 175:1251-1254.

POLLOCK, J.M. & NEILL, S.D. 2002 *Mycobacterium bovis* infection and tuberculosis in cattle. *Veterinary Journal*, 163:115-127.

POTTUMARTHY, S., MORRIS, A.J., HARRISON, A.C. & WELLS, V.C. 1999. Evaluation of the tuberculin gamma interferon assay: potential to replace the Mantoux skin test. *Journal of Clinical Microbiology*, 37:3229-3232.

RENWICK, A.R., WHITE, P.C. & BENGIS, R.G. 2007. Bovine tuberculosis in southern African wildlife: a multi-species host-pathogen system. *Epidemiology and Infection*, 135:529-540.

REYNAUD, C.A., ANQUEZ, V., GRIMAL, H. & WEILL, J.C. 1987. A hyperconversion mechanism generates the chicken light chain preimmune repertoire. *Cell*, 48:379-88.

REYNAUD, C.A., DAHAN, A., ANQUEZ, V. & WEILL, J.C. 1989. Somatic hyperconversion diversifies the single V_H gene of the chicken with a high incidence in the D region. *Cell*, 59:171-183.

RHODES, S.G., BUDDLE, B.M., HEWINSON, R.G. & VORDERMEIER, H.M. 2000a. Bovine tuberculosis: immune responses in the peripheral blood and at the site of active disease. *Immunology*, 99:195-202.

RHODES, S.G., GAVIER-WIDEN, D., BUDDLE, B.M., WHELAN, A.O., SINGH, M., HEWINSON, R.G. & VORDERMEIER, H.M. 2000b. Antigen specificity in experimental bovine tuberculosis. *Infection and Immunity*, 68:2573-2578.

RHODES, S.G., GRUFFYDD-JONES, T., GUNN-MOORE, D. & JAHANS, K. 2008. Interferon-gamma test for feline tuberculosis. *Veterinary Record*, 162:453-455.

ROTHEL, J.S., JONES, S.L., CORNER, L.A., COX, J.C. & WOOD, P.R. 1990. A sandwich enzyme immunoassay for bovine interferon-gamma and its use for the detection of tuberculosis in cattle. *Australian Veterinary Journal*, 67:134-137

SCHILLER, I., WATERS, W.R., VORDERMEIER, H.M., NONNECKE, B., WELSH, M., KECK, N., WHELAN, A., SIGAFOOSE, T., STAMM, C., PALMER, M., THACKER, T., HARDEGGER, R., MARG-HAUFE, B., RAEBER, A. & OESCH, B. 2009. Optimization of a whole-blood gamma interferon assay for detection of *Mycobacterium bovis*-infected cattle. *Clinical and Vaccine Immunology*, 16:1196-1202.

SCHMITT, S.M., FITZGERALD, S.D., COOLEY, T.M., BRUNING-FANN, C.S., SULLIVAN, L., BERRY, D., CARLSON, T., MINNIS, R.B., PAYEUR, J.B. & SIKARSKIE, J. 1997. Bovine tuberculosis in free-ranging white-tailed deer from Michigan. *Journal of Wildlife Diseases*, 33:749-758.

STEINBROOK, R. 2007. Tuberculosis and HIV in India. *New England Journal of Medicine*, 356:1198-1199.

STEINGART, K.R., HENRY, M., LAAL, S., HOPEWELL, P.C., RAMSAY, A., MENZIES, D., CUNNINGHAM, J., WELDINGH, K. & PAI, M. 2007. A systematic review of commercial serological antibody detection tests for the diagnosis of extrapulmonary tuberculosis. *Postgraduate Medical Journal*, 83:705-712.

THOMPSON, C.B. & NEIMAN, P.E. 1987. Somatic diversification of the chicken immunoglobulin light chain gene is limited to the rearranged variable gene segment. *Cell*, 48:369-378.

VAN WYNGAARDT, W., MALATJI, T., MASHAU, C., FEHRSEN, J., JORDAAN, F., MILTIADOU, D. & DU PLESSIS, D.H. 2004. A large semi-synthetic single-chain Fv phage display library based on chicken immunoglobulin genes. *BMC Biotechnology*, 4:6.

VERVENNE, R.A.W., JONES, S.L., VAN SOOLINGEN, D., VAN DER LAAN, T., ANDERSEN, P., HEIDT, P.J., THOMAS, A.W. & LANGERMANS. 2004. TB diagnosis in non-human primates: comparison of two interferon- γ assays and the skin test for identification of *Mycobacterium tuberculosis* infection. *Veterinary Immunology and Immunopathology*, 100:61-71.

VIDYA, T.N.C.; FERNANDO, P., MELNICK, D.J. & SUKUMAR, R. 2005. Population differentiation within and among Asian elephant (*Elephas maximus*) populations in Southern India. *Heredity*, 94:71-80.

VORDERMEIER, H.M., WHELAN, A., COCKLE, P.J., FARRANT, L., PALMER, N. & HEWINSON, R.G. 2001. Use of synthetic peptides derived from the antigens ESAT-6 and CFP-10 for differential diagnosis of bovine tuberculosis in cattle. *Clinical and Diagnostic Laboratory Immunology*, 8:571-578.

WATERS, W.R., PALMER, M.V., THACKER, T.C., ORLOSKI, K., NOL, P., HARRINGTON, N.P., OLSEN, S.C. & NONNECKE, B.J. 2008. Blood culture and stimulation conditions for the diagnosis of tuberculosis in cervids by the Cervigam assay. *Veterinary Record*, 162:203-208.

WINTER, G., GRIFFITHS, A.D., HAWKINS, R.E. & HOOGENBOOM, H.R. 1994. Making antibodies by phage display technology. *Annual Review of Immunology*, 12:433-455.

WOOD, P.R. & JONES, S.L. 2001. BOVIGAM™: an *in vitro* cellular diagnostic test for bovine tuberculosis. *Tuberculosis*, 81:147-155.

WORLD HEALTH ORGANIZATION. 2008. Tuberculosis in South-East Asia Region, the regional report: 2008. *WHO Report No.: SE ICP TUB 1-75*.

YAMANAKA, H.I., INOUE, T. & IKEDA-TANAKA, O. 1996. Chicken monoclonal antibody isolated by a phage display system. *Journal of Immunology*, 157:1156-1162.