

A black and white photograph of a snowy surface with several footprints. The footprints are arranged in a path, with one large footprint in the center and several smaller ones above and below it. The snow is bright white, and the footprints are dark shadows.

*rivm*

Annual Science Report 2008

# Annual Science Report 2008

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## Foreword

RIVM's 2008 Annual Report provides a comprehensive overview of the institute's activities, which are mainly geared towards collecting and disseminating knowledge. Having obtained knowledge in a particular field, notably by conducting research, RIVM then shares it with its commissioning bodies, co-operation partners and other interested parties. The information thus disseminated often results in high-level policy changes.

RIVM disseminates the knowledge it collects in many ways. For instance, the institute publishes an enormous amount of information each year, ranging from reports and books to doctoral theses, both domestic and international in scope.

The current Science appendix lists all RIVM releases published over the course of 2008. With a total of 722 scientific publications over 2008, up from 654 in 2007, RIVM is building a strong profile for itself as an internationally oriented knowledge centre. I am proud of the marked increase in RIVM publications and regard it as the crowning glory of the work we did in 2008.

Dr Marc J.W. Sprenger  
Director-General

## Research Output

Centre for Infectious  
Disease Control

CIb

**Research Papers (international, 196)**

Akmatov MK; Kretzschmar M; Kramer A; Mikolajczyk RT

**Timeliness of vaccination and its effects on fraction of vaccinated population**

Vaccine 2008; 26(31):3805-11

Alamanza H; Cubillos C; Angulo I; Mateos F; Caston JR; Poel WHM van der; Vinje J;

Barcena J; Mena I

**Self-assembly of the recombinant capsid protein of a swine norovirus into virus-like particles and evaluation of monoclonal antibodies cross-reactive with a human strain from genogroup II**

J Clin Microbiol 2008; 46(12):3971-9

Alffenaar JWC; Vries PM de; Luijckx GJ;

Soolingen D van; Werf TS van der; Altena R van

**Plasma and cerebrospinal fluid pharmacokinetics of moxifloxacin in a patient with**

tuberculous meningitis

Antimicrob Agents Chemother 2008; 52(6):2293-5

Arkema JMS; Meijer A; Meerhoff TJ; Velden J van der; Paget WJ; European Influenza

Surveillance Scheme (EISS)

**Epidemiological and virological assessment of influenza activity in Europe, during the 2006-2007 winter**

Eurosurveillance 2008; 13(34)

Arkema JMS; Meijer A; Paget WJ; Casteren V van; Hungnes O; Mazick A; Velden J van der

**The influenza season has started in a number of European countries**

Eurosurveillance 2008; 13(4)

Ashley EA; Pinoges L; Turyakira E; Dorsey G; Checchi F; Bukirwa H; Broek I van den; Zongo I;

Palma Urruta PP; Herp M van; Balkan S;

Taylor WR; Olliaro P; Guthmann JP

**Different methodological approaches to the assessment of in vivo efficacy of three artemisinin-based combination antimalarial treatments for the treatment of uncomplicated falciparum malaria in African children**

Malar J 2008; 7:154

Asselt ED van; Jong AEI de; Jonge R de;

Nauta MJ

**Cross-contamination in the kitchen: estimation of transfer rates for cutting boards, hands and knives**

J Appl Microbiol 2008; 105(5):1392-401

Baars J; Boon B; Wit JB de; Schutten M;

Steenbergen JE van; Garretsen HF; Mheen D van de

**Drug users' participation in a free hepatitis B vaccination program: demographic, behavioral, and social-cognitive determinants**

Substance Use & Misuse 2008; 43(14):2145-62

Banus S; Stenger RM; Gremmer ER; Dormans JAMA; Mooi FR; Kimman TG; Vandebriel RJ

**The role of Toll-like receptor-4 in pertussis vaccine-induced immunity**

BMC Immunology 2008; 9:21

Belkum A van; Melles DC; Peeters JK; Leeuwen WB van; Duijkeren E van; Huijsdens XW;

Spalburg E; Neeling A de; Verbrugh HA

**Methicillin-resistant and -susceptible staphylococcus aureus sequence type 398 in pigs and humans**

Emerg Infect Dis 2008; 14(3):479-83

Bentham BHB van; Vliet JA van

**Reflections on an evaluation of the Dutch infectious diseases surveillance information system**

Eurosurveillance 2008; 13(11)

Berends IMGA; Graat EAM; Swart WAJM;

Weber MF; Giessen AW van de; Lam TJGM;

Heuvelink AE; Weering HJ van

**Prevalence of VTEC O157 in dairy and veal herds and risk factors for veal herds**

Prev Vet Med 2008; 87(3-4):301-10

Bergmans AMC; Schouls LM; Ent M van der;

Klaassen A; Boehm N; Wintermans RGF

**Validation of PCR-reverse line blot, a method for rapid detection and identification of nine dermatophyte species in nail, skin and hair samples**

Clin Microbiol Infect 2008; 14(8):778-88

Bernard H; Schwarz NG; Melnic A; Bucov V;

Caterinciu N; Pebody RG; Mulders M;

Aidyralieva C; Hahne S

**Mumps outbreak ongoing since october**

**2007 in the republic of Moldova**

Eurosurveillance 2008; 13(13)

Bertrand S; Rimhanen-Finne R; Weill FX;

Rabsch W; Thornton L; Perevoscikovs J; Pelt W van; Heck M

**Salmonella infections associated with reptiles: the current situation in Europe**

Eurosurveillance 2008; 13(24)

Beyersmann J; Gastmeier P; Grundmann H;

Barwolff S; Geffers C; Behnke M; Ruden H;

Schumacher M

**Transmission-associated nosocomial infections: prolongation of intensive care unit stay and risk factor analysis using multistate models**

Am J Infect Control 2008; 36(2):98-103

Bezemer D; Sighem A van; Wolf F de;

Cornelissen M; Kuyil AC van der; Jurriaans S;

Hoek L van der; Prins M; Coutinho RA;

Lukashov VV

**Combination antiretroviral therapy failure and HIV super-infection**

AIDS 2008; 22(2):309-11

Bezemer D; Wolf F de; Boerlijst MC; Sighem A

van; Hollingsworth TD; Prins M; Geskus RB;

Gras L; Coutinho RA; Fraser C

**A resurgent HIV-1 epidemic among men who have sex with men in the era of potent antiretroviral therapy**

AIDS 2008; 22:1071-7

Bij AK van der; Dukers NH; Coutinho RA;

Fennema HS

**Low HIV-testing rates and awareness of HIV infection among high-risk heterosexual STI**

**clinic attendees in The Netherlands**

Eur J Public Health 2008; 18(4):376-9

*Binnendijk RS van; Hahne S; Timen A; Kempen G van; Kohl RHG; Boot HJ; Wolthers KC; Wetsteijn JCFM; Vries A de; Westert K; Brown KE; Swart RL de*

**Air travel as a risk factor for introduction of measles in a highly vaccinated population**

Vaccine 2008; 26(46):5775-7

*Boer JW den; Bruin JP; Verhoef LPB; Zwaluw K van der; Jansen R; Yzerman EPF*

**Genotypic comparison of clinical Legionella isolates and patient-related environmental isolates in The Netherlands, 2002-2006**

Clin Microbiol Infect 2008; 14(5):459-66

*Boer JW den; Coutinho RA; Yzerman EPF; Sande MAB van der*

**Use of surface water in drinking water production associated with municipal Legionnaires' disease incidence**

J Epidemiol Community Health 2008; 62(4):e1

*Boot HJ; Cremer J; Koedijk FDH; Ballegooijen WM van; Op de Coul ELM*

**Improved tracing of hepatitis B virus transmission chains by phylogenetic analysis based on C region sequences**

J Med Virol 2008; 80(2):233-41

*Boot R; Berg L van de; Reubsat FAG; Vlemminx MJ*

**Positive streptococcus moniliformis PCR in guinea pigs likely due to Leptotrichia spp.**

Vet Microbiol 2008; 128(3-4):395-9

*Borg MA; Sande-Bruinsma N van de; Scicluna E; Kraker M de; Tiemersma E; Monen J; Grundmann H*

**Antimicrobial resistance in invasive strains of Escherichia coli from southern and eastern Mediterranean laboratories**

Clin Microbiol Infect 2008; 14(8):789-96

*Borgen K; Herremans T; Duizer E; Vennema H; Rutjes S; Bosman A; Roda Husman AM de; Koopmans M*

**Non-travel related Hepatitis E virus genotype 3 infections in the Netherlands; a case series 2004-2006**

BMC Infect Dis 2008; 8:61

*Borgen K; Koster B; Meijer H; Kuyvenhoven V; Sande M van der; Cobelens F*

**Evaluation of a large-scale tuberculosis contact investigation in the Netherlands**

Eur Respir J 2008; 32(2):419-25

*Bouwknegt M; Engel B; Herremans MMPT; Widdowson MA; Worm HC; Koopmans MPG; Frankena K; Roda Husman AM de; Jong MCM de; Poel WHM van der*

**Bayesian estimation of hepatitis E virus seroprevalence for populations with different exposure levels to swine in The Netherlands**

Epidemiol Infect 2008; 136(4):567-76

*Bouwknegt M; Frankena K; Rutjes SA; Wellenberg GJ; Roda Husman AM; Poel WH van der; Jong MC de*

**Estimation of hepatitis E virus transmission among pigs due to contact-exposure**

Vet Res 2008; 39(5):40

*Boven M van; Klinkenberg D; Pen I; Weissing FJ; Heesterbeek H*

**Self-interest versus group-interest in antiviral control**

PLoS ONE 2008; 3(2):e1558

**Bruijnesteijn van Coppentraet LES; Haas PEW de; Lindeboom JA; Kuijper EJ; Soolingen D van Lymphadenitis in children is caused by Mycobacterium avium hominissuis and not related to 'bird tuberculosis'**

Eur J Clin Microbiol Infect Dis 2008; 27(4):293-9

*Buijtsels PCAM; Sande WWJ van de; Parkinson S; Petit PLC; Sande MAB van der; Soolingen D van; Verbrugh HA; Belkum A van*

**Polymorphism in CC-chemokine ligand 2 associated with tuberculosis in Zambia**

Int J Tuberc Lung Dis 2008; 12(12):1485-8

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**Rapid identification of mycobacteria by Raman spectroscopy**

J Clin Microbiol 2008; 46(3):961-5

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**Preexisting poliovirus-specific IgA in the circulation correlates with protection against virus excretion in the elderly**

J Infect Dis 2008; 197(1):698-706

*Caws M; Thwaites G; Dunstan S; Hawn TR; Thi Ngoc Lan N; Thuong Thuong NT; Stepniewska K; Huyen MNT; Ban ND; Loc TH;*

*Gagneux S; Soolingen D van; Kremer K; Sande M van der; Small P; Anh PTH; Chinh NT; Quy HT; Duyen NTH; Tho DQ; Hieu NT; Torok E; Hien TT; Dung NH; Nhu NTQ; Duy PM; Chau NvV; Farrar J*

**The influence of host and bacterial genotype on the development of disseminated disease with Mycobacterium tuberculosis**

Plos Pathogens 2008; 4(3):e1000034

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**Current methods for extraction and concentration of enteric viruses from fresh fruit and vegetables: towards international standards.**

Food Anal Methods 2008; 1:73-84

*David S; Vermeer-de Bondt PE; Maas NAT van der*

**Reactogenicity of infant whole cell pertussis combination vaccine compared with acellular pertussis vaccines with or without simultaneous pneumococcal vaccine in the Netherlands**

Vaccine 2008; 26(46):5883-7

*Derks TGJ; Boer TS; Assen A van; Bos T; Ruiters J; Waterham HR; Niezen-Koning KE; Wanders RJA; Rondeel JMM; Loeber JG; Kate LP ten; Smit GPA; Reijngoud DJ*

**Neonatal screening for medium-chain acyl-CoA dehydrogenase (MCAD) deficiency in The Netherlands: the importance of enzyme analysis to ascertain true MCAD deficiency**

J Inherit Metab Dis 2008; 31(1):88-96

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**Analysis of the surveillance situation for viral encephalitis and meningitis in Europe**  
*Eurosurveillance* 2008; 13(3)

*Dool C van den; Bonten MJM; Hak E; Heijne JCM; Wallinga J*

**The effects of influenza vaccination of health care workers in nursing home: insights from a mathematical model**  
*PLoS Med* 2008; 5(10):e200

*Dool C van den; Hak E; Wallinga J; Loon AM van; Lammers JWJ; Bonten MJM*  
**Symptoms of influenza virus infection in hospitalized patients**  
*Infect Control Hosp Epidemiol* 2008; 29(4):314-9

*Doorduyn Y; Hofhuis A; Jager CM de; Zwaluw WK van der; Notermans DW; Pelt W van*  
**Salmonella typhimurium outbreaks in the Netherlands in 2008**  
*Eurosurveillance* 2008; 13(44)

*Doorduyn Y; Pelt W van; Siezen CLE; Horst F van der; Duynhoven YTHP van; Hoebee B; Janssen R*  
**Novel insight in the association between salmonellosis or campylobacteriosis and chronic illness, and the role of host genetics in susceptibility to these diseases**  
*Epidemiol Infect* 2008; 136(9):1225-34

*Duijkeren E van; Ikawaty R; Broekhuizen-Stins MJ; Jansen MD; Spalburg EC; Neeling AJ de; Allaart JG; Nes A van; Wagenaar JA; Fluit AC*

**Transmission of methicillin-resistant Staphylococcus aureus strains between different kinds of pig farms**  
*Vet Microbiol* 2008; 126(4):383-9

*Duizer E; Kroneman A; Siebenga J; Verhoef L; Vennema H; Koopmans M; the FBVE network*  
**Typing database for noroviruses**  
*Eurosurveillance* 2008; 13(19)

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**Prevalence, characterisation and clinical profiles of Shiga toxin-producing Escherichia coli in the Netherlands**  
*Clin Microbiol Infect* 2008; 14(5):437-45

*El-Sayed N; El-Gamal Y; Abbassy AA; Seoud I; Salama M; Kandeel A; Hossny E; Shawky A; Hussein HA; Pallansch MA; Avoort HGAM van der; Burton AH; Sreevatsava M; Malankar P; Wahdan MJ; Sutter RW*  
**Monovalent type 1 oral poliovirus vaccine in newborns**  
*N Engl J Med* 2008; 359(16):1655-65

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**Campylobacter source attribution by exposure management**  
*Int J Risk Assess Manag* 2008; 8(1-2):174-90

*Ewijk BE van; Zalm MM van der; Wolfs TF; Fleer A; Kimpfen JL; Wilbrink B; Ent CK van der*  
**Prevalence and impact of respiratory viral infections in young children with cystic**

**fibrosis: prospective cohort study**  
*Pediatrics* 2008; 122(6):1171-6

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**Mycobacterium avium in a shower linked to pulmonary disease**  
*J Water Health* 2008; 6(2):209-13

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**Bordetella pertussis expresses a functional type III secretion system that subverts protective innate and adaptive immune responses**  
*Infect Immun* 2008; 76(3):1257-66

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**Effect of humic acid on the attachment of Escherichia coli in columns of goethite-coated sand**  
*Water Res* 2008; 42(1-2):211-9

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**An international outbreak of Shiga toxin-producing Escherichia coli O157 infection due to lettuce, September-October 2007**  
*Eurosurveillance* 2008; 13(50)

*Gageldonk PGM van; Schaijk FG van; Klis FR van der; Berbers GAM*  
**Development and validation of a multiplex immunoassay for the simultaneous determination of serum antibodies to Bordetella pertussis, diphtheria and tetanus**  
*J Immunol Meth* 2008; 335(1-2):79-89

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**Survival of Campylobacter jejuni strains from different origins under oxidative stress conditions: effect of temperature**  
*Curr Microbiol* 2008; 56(4):293-7

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**Application of sensitive and specific molecular methods to uncover global dissemination of the major RD10 sublineage of the Latin American-Mediterranean Mycobacterium tuberculosis spoligotype family**  
*J Clin Microbiol* 2008; 46(4):1259-67

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**Emergence of Clostridium difficile infection due to a new hypervirulent strain, polymerase chain reaction Ribotype 078**  
*Clin Infect Dis* 2008; 47(9):1162-70

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*J Clin Microbiol* 2008; 46(3):1157-8

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**Transmission of highly pathogenic avian influenza H5N1 virus in Pekin ducks is significantly reduced by a genetically distant H5N2 vaccine**  
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*Eur J Clin Microbiol Infect Dis* 2008; 27(10):985-92
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**Chronic hepatitis E virus infection in liver transplant recipients**  
*Liver Transpl* 2008; 14(4):547-53
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**Disability adjusted life years and minimal disease: application of a preference-based relevance criterion to rank enteric pathogens**  
*Population Health Metrics* 2008; 6:7
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**Cleavage of group 1 coronavirus spike proteins: how furin cleavage is traded off against heparan sulfate binding upon cell culture adaptation**  
*J Virol* 2008; 82(12):6078-83
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**Hepatitis B virus transmission in The Netherlands: a population-based, hierarchical case-control study in a very low-incidence country**  
*Epidemiol Infect* 2008; 136(2):184-95
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**Cytokine expression in the brains of *Toxocara canis*-infected mice**  
*Parasite Immunol* 2008; 30(3):181-5
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**Mycobacterial T cell responses in HIV-infected patients with advanced immunosuppression**  
*J Infect Dis* 2008; 197(2):295-9
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**Challenges of quantitative microbial risk assessment at EU level**  
*Trends Food Sci Technol* 2008; 19(suppl 1):22-9
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**Attribution of foodborne pathogens using structured expert elicitation**  
*Foodborne Pathog Dis* 2008; 5(5):649-59
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*Emer Infect Dis* 2008; 14(11):1797-9
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*Nat Clin Pract Rheumatol* 2008; 4(12):649-56
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**Host genetics and genomics of Bordetella pertussis infection and vaccination**

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*Bosgra S*

**The use of modelling and probabilistic methods in cumulative risk assessment**

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*Heidema AG*

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## Environmental Risk and Safety

# MEV



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**RIVM Annual Science Report 2008**

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**Design**

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