

Publicaties 2017 SOR-periode 2011-2014

Themes

- ANT: Application of New Technologies
- FKA: Filling the gap: from Knowledge to Action
- HEA: Healthy Ageing
- HSL: Healthy and Sustainable Living environments
- IDD: Infectious Disease Dynamics
- IRA: New dimensions on Integrated (Risk) Assessments in public health and environment
- SVR: Strategic Vaccine Research

✓: *eerste en/of tweede en/of laatste auteur is RIVM-medewerker*
auteur vetgedrukt: RIVM-medewerker

Healthy Ageing (HEA)

HEA, S/132001, Personalised Medicine

- ✓ **Jansen ME, Rigter T, Rodenburg W**, Fleur TMC, Houwink EIJ, **Weda M**, Cornel MC
Review of the reported measures of clinical validity and clinical Utility as arguments for the implementation of pharmacogenetic testing: A case study of statin-induced muscle toxicity
Front Pharmacol 2017; 8:555
[Open Access](#)

HEA, S/132002, Biomarkers of Frailty

- ✓ **2. Oostrom SH van, A DL van der, Rietman ML, Picavet HSJ, Lette M, Verschuren WMM, Bruin SR de, Spijkerman AMW**
A four-domain approach of frailty explored in the Doetinchem Cohort Study
BMC Geriatr. 2017; 17(1):196.
[Open Access](#)
- ✓ **3. Jongbloed F**, Saat TC, Verweij M, Payan-Gomez C, Hoeijmakers JH, Engel S van den, **Oostrom CT van**, Ambagtsheer G, **Imholz S, Pennings JLA, van Steeg H**, IJzermans JNM, **Dollé MET**, de Bruin RW
A signature of renal stress resistance induced by short-term dietary restriction, fasting, and protein restriction
Sci Rep 2017; 7:40901
[Open Access](#)
- 4. Giacconi R, Costarelli L, Piacenza F, Basso A, Bürkle A, Moreno-Villanueva M, Grune T, Weber D, Stuetz W, Gonos ES, Schön C, Grubeck-Loebenstien B, Sikora E, Toussaint O, Debaq-Chainiaux F, Franceschi C, Hervonen A, Slagboom E, Ciccarone F, Zampieri M, Caiafa P, **Jansen E, Dollé MET**, Breusing N, Mocchegiani E, Malavolta M**
Zinc-induced metallothionein in centenarian offspring from a large European population: the MARK-AGE Project
J Gerontol A Biol Sci Med Sci 2018: advance online publication (ahead of print)
[Closed Access](#)

5. Weber D, Stuetz W, Toussaint O, Debaq-Chainiaux F, **Dollé MET, Jansen E**, Gonos ES, Franceschi C, Sikora E, Hervonen A, Breusing N, Sindlinger T, Moreno-Villanueva M, Bürkle A, Grune T

Associations between specific redox biomarkers and age in a large European Cohort: The MARK-AGE Project

Oxid Med Cell Longev 2017; 2017:1401-52

[Open Access](#)

6. Wu H, Thiel BS van, Bautista-Niño PK, Reiling E, Durik M, Leijten FPJ, Ridwan Y, Brandt RMC, **van Steeg H, Dollé MET**, Vermeij WP, Hoeijmakers JHJ, Essers J, Pluijm I van der, Danser AHJ, Roks AJM

Dietary restriction but not angiotensin II type 1 receptor blockade improves DNA damage-related vasodilator dysfunction in rapidly aging Ercc1Δ/- mice.

Clin Sci 2017; 131(15):1941-53

[Closed Access](#)

Healthy and Sustainable Living environments (HSL)

HSL, S/607022, Quantification of ecosystem services for environmental assessment and planning (QESAP)

7. Deru JGC, Bloem J, Goede R de, Keidel H, Kloen H, **Rutgers M**, Akker J van den, Brussaard L, Eekeren N van

Soil ecology and ecosystem services of dairy and semi-natural grasslands on peat

Appl Soil Ecol 2018; advance online publication (ahead of print)

[Open Access](#)

✓ 8. **Sechi V**, Goede RGM de, **Rutgers M**, Brussaard L, **Mulder C**

A community trait-based approach to ecosystem functioning in soil

Agriculture Ecosystems Environ 2017; 239:265-73

[Closed Access](#)

9. Vrebos D, Bampa F, Creamer RE, Gardi C, Ghaley BB, Jones A, **Rutgers M**, Sandén T, Staes J, Meire P

The impact of policy instruments on soil multifunctionality in the European Union

Sustainability 2017; 9(3):407

[Open Access](#)

Infectious Disease Dynamics (IDD)

IDD, S/114001, Molecular Data for MRA

✓ 10. **Wijnands LM, Teunis PFM, Kuijpers A, Pielaat A, Delfgou-van Asch EHM**

Quantification of Salmonella survival and infection in an in vitro model of the human intestinal tract as proxy for foodborne pathogens

Front Microbiol 2017; 8:1139

[Open Access](#)

11. Emond-Rheault JG, Jeukens J, Freschi L, Kukavica-Ibrulj I, Boyle B, **Franz E, Wijnands LM**, Wilson ED, et al.

A syst-OMICS approach to ensuring food safety and reducing the economic burden of salmonellosis

Front Microbiol 2017; 8:996

[Open Access](#)

New dimensions on Integrated (Risk) Assessments in public health and environment (IRA)

IRA, E/121503, SOLUTIONS

12. Munthe J, Brorström-Lundén E, Rahmberg M, **Posthuma L**, Altenburger R, Brack W, Bunke B, Engelen G, Gawlik BM, van Gils J, López Herráez D, Rydberg T, Slobodnik J, Wezel A van

An expanded conceptual framework for solution-focused management of chemical pollution in European waters

Environ Sci Eur 2017; 29(1):13

[Open Access](#)

- ✓ **13. Zijp MC**, Huijbregts MAJ, Schipper AM, **Mulder C**, **Posthuma L**
Identification and ranking of environmental threats with ecosystem vulnerability distributions
Sci Rep 2017; 7(1):9298

[Open Access](#)

- ✓ **14.** Wezel AP van, Laak T ter, Fischer A, Bauerlein PS, Munthe J, **Posthuma L**

Mitigation options for chemicals of emerging concern in surface waters

operationalising solutions-focused risk assessment

Environ Sci: Water Res Technol 2017; 3(3):403-14

[Closed Access](#)

15. Brack W, Dulio V, Ågerstrand M, Allan I, Altenburger R, Brinkmann M, Bunke D, Burgess RM, Cousins I, Escher BI, Hernández FJ, Hewitt LM, Hilscherová K, Hollender J, Hollert H, Kase R, Klauer B, Lindim C, Herráez DL, Miège C, Munthe J, O'Toole S, **Posthuma L**, Rüdél H, Schäfer RB, Sengl M, Smedes F, Meent D van de, Brink PJ van den, Gils J van, Wezel AP van, Vethaak AD, Vermeirssen E, Ohe PC von der, Vrana B

Towards the review of the European Union Water Framework management of chemical contamination in European surface water resources

Sci Total Environ 2016; 576:720-37

[Closed Access](#)

Strategic Vaccine Research (SVR)

SVR, S/000139, Identifying long-term specific pathogen immunity after vaccination

- ✓ **16. Lee S van der**, **Stoof SP**, **Ravenhorst MB van**, **Gageldonk PGM van**, **Maas NAT van der**, **Sanders EAM**, **Buisman AM**, **Berbers GAM**

Enhanced Bordetella pertussis acquisition rate in adolescents during the 2012 epidemic in the Netherlands and evidence for prolonged antibody persistence after infection

Euro Surveill. 2017; 22(47):17-00011

[Open Access](#)

- ✓ **17. Lee S van der**, **Sanders EAM**, **Berbers GAM**, **Buisman AM**

Whole-cell or acellular pertussis vaccination in infancy determines IgG subclass profiles to DTaP booster vaccination

Vaccine 2018; 36(2):220-6

[Closed Access](#)

- ✓ **18. Boef AGC, Klis FRM van der, Berbers GAM, Buisman AM, Sanders EAM, Kemmeren JM, Ende A van der, Melker HE de, Rots NY, Knol MJ**
Differences by sex in IgG levels following infant and childhood vaccinations: An individual participant data meta-analysis of vaccination studies
Vaccine 2018; 36(3):400-7
[Closed Access](#)

SVR, S/000302, T cells in mumps vaccine

- ✓ **19. Wit J de, Emmelot ME, Poelen MCM, Binnendijk RS van, Lee S van der, Baarle D van, Han WGH, Els CA van, Kaaijk P**
Mumps infection but not childhood vaccination induces persistent polyfunctional CD8+ T-cell memory
J Allergy Clin Immunol 2018; advance online publication (ahead of print)
[Open Access](#)

SVR, S/230466, Strengthening memory immunity in the aged population by vaccination pre-elderly

- ✓ **20. Heiden M van der, Ravenhorst MB van, Bogaard M, Boots AM, Berbers GAM, Buisman AM**
Lower antibody functionality in middle-aged adults compared to adolescents after primary meningococcal vaccination: role of IgM
Exp Gerontol 2018; advance online publication (ahead of print)
[Open Access](#)
- ✓ **21. Heiden M van der, Duizendstra A, Berbers GAM, Boots AMH, Buisman AM**
Tetanus toxoid carrier protein induced T-helper cell responses upon vaccination of middle-aged adults
Vaccine 2017; 35(42):5581-8
[Open Access](#)
- ✓ **22. Heiden M van der, Boots AMH, Bonacic Marinovic AA, de Rond LGH, Maurik M van, Tcherniaeva I, Berbers GAM, Buisman AM**
Novel intervention in the aging population: a primary meningococcal vaccine inducing protective IgM responses in middle-aged adults
Front Immunol 2017; 8:817
[Open Access](#)

Nagekomen publicaties 2017 SOR-periode 2011-2014

Healthy Ageing (HEA)

HEA, S/370002, Adequate medication by elderly

- ✓ **23. Notenboom K, Leufkens HGM, Vromans H, Bouvy ML**
Learning from patients: identifying design features of medicines that cause medication use problems
Int J Pharm 2017; 517(1-2):128-34
[Open Access](#)

HEA, S/370002, Adequate medication by elderly

- ✓ **24. Notenboom K, Vromans H, Schipper M, Leufkens HGM, Bouvy ML**
Relationship between age and the ability to break scored tablets
Front Pharmacol. 2016; 7:222
[Open Access](#)

Healthy and Sustainable Living environments (HSL)

HSL, S/607021, Climate Cascade

- ✓ **25. Sterk A, Schijven JF, Nijs T de, Roda Husman AM de**
Direct and indirect effects of climate change on the risk of infection by water-transmitted pathogens
Environ Sci Technol 2014; 47(22):12648–60
[Closed Access](#)

Infectious Disease Dynamics (IDD)

IDD, S114001, MOLECULAR DATA FOR MRA

- ✓ **26. Pielaat A, Kuijpers A, Delfgou-van Asch EHM, Pelt W van, Wijnands LM**
Phenotypic behavior of 35 salmonella enterica serovars compared to epidemiological and genomic data
Procedia Food Science 2016; 7:53-8
[Open Access](#)
- ✓ **27. Pielaat A, Boer MP, Wijnands LM, Hoek AHAM van, Bouw E, Barker GC, Teunis PFM, Aarts HJM, Franz E**
First step in using molecular data for microbial food safety risk assessment; hazard identification of Escherichia coli O157:H7 by coupling genomic data with in vitro adherence to human epithelial cells
Int J Food Microbiol 2015; 213:130-8
[Open Access](#)
- ✓ **28. Franz E, Mughini-Gras L, Dallman T**
Significance of whole genome sequencing for surveillance, source attribution and microbial risk assessment of foodborne pathogens
Curr Opin Food Sci 2016; 8:74-9
[Closed Access](#)

New dimensions on Integrated (Risk) Assessments in public health and environment (IRA)

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- 29. Munthe J, Brorström-Lundén E, Rahmberg M, Posthuma L, Altenburger R, Brack W, Bunke B, Engelen G, Gawlik BM, Gils J van, López Herráez D, Rydberg T, Slobodnik J, Wezel A van**
An expanded conceptual framework for solution-focused management of chemical pollution in European waters
Environ Sci Europe 2017; 29(1):13
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