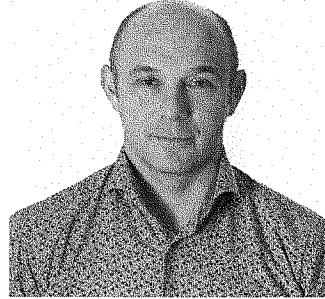


## Curriculum vitae Hein Sprong, June 2021

**1. Personal details**

Name Hein Sprong



Work address National Institute of Public Health and the Environment  
Centre for Infectious Disease Control  
Antonie van Leeuwenhoeklaan 9  
mailbox 63, 3720 BA Bilthoven, Netherlands

Phone +31 (0)6-11903071

On the web [Researchgate.net/profile/Hein\\_Sprong](https://Researchgate.net/profile/Hein_Sprong), [NCBI.nlm.nih.gov/pubmed/?term=sprong+h](https://NCBI.nlm.nih.gov/pubmed/?term=sprong+h),  
[Orcid ID: 0000-0002-0218-4320](https://Orcid.org/0000-0002-0218-4320), [Google Scholar ID: Hein Sprong](https://Google Scholar.com/Hein Sprong)  
[Twitter.com/heinsprong](https://Twitter.com/heinsprong), [Linkedin.com/in/heinsprong/](https://Linkedin.com/in/heinsprong/)

**2a. Employment and Education**

2007- present	<b>Research coordinator wildlife and vector-borne diseases</b> National Institute of Public Health and Environment, Centre for Infectious Disease Control → <i>Surveillance and control of wildlife and vector-borne diseases</i> Team leader, researcher, advisor in wildlife & vector-borne diseases, coordinator of multidisciplinary and (inter)national research projects, supervisor of researchers, PhD-students, technicians, bachelor- and master students						
2012-	<b>Visiting Scientist (0.1 fte)</b> Wageningen University & Research, Laboratory of Entomology → <i>Molecular ecology of ticks and tick-borne diseases</i> Thesis advisor for PhD students, supervisor of bachelor- and master students						
2003-2007	<b>Assistant professor</b> Utrecht University, Faculty of science, Institute of Biomembranes → <i>Fate and function of cellular lipids</i> Supervisor of researchers, PhD-students, technicians, bachelor- and master students, teacher of bachelor- and master students from Chemistry, Biology Biomedical sciences and University College						
2001-2003	<b>Postdoctoral researcher</b> Max-Planck Institute for Molecular cell biology and genetics, Dresden → <i>Lipid-protein interactions in the cells and tissues</i> Supervisor of a PhD-student, a technician, and master students						
1996-2001	<b>PhD student</b> University of Amsterdam, Faculty of Medicine, Cell biology & Histology → <i>The role of glycosphingolipids in protein transport</i> Supervisor of a bachelor- and master students						
1991-1996	<b>Medical Biology student Utrecht University, with honours</b> <table border="0"> <tr> <td>Public health</td> <td>Faculty of Medicine, Julius Centre</td> </tr> <tr> <td>Virology</td> <td>Veterinary School, Infectious diseases &amp; Immunology</td> </tr> <tr> <td>Cell biology</td> <td>Faculty of Medicine, Cell Biology</td> </tr> </table>	Public health	Faculty of Medicine, Julius Centre	Virology	Veterinary School, Infectious diseases & Immunology	Cell biology	Faculty of Medicine, Cell Biology
Public health	Faculty of Medicine, Julius Centre						
Virology	Veterinary School, Infectious diseases & Immunology						
Cell biology	Faculty of Medicine, Cell Biology						
1990-1991	<b>Non-commissioned Officer Cavalry Reconnaissance</b> Conscription						

**2b. Certificates, courses and prizes**

<b>Research</b>	2014	Advanced course on Biological Safety Level-3 to prepare for EBOLA-mission (EUR)
	2011	International course on phylo-geography (Tromsø)
	2011	Certificate From Farm to Fork European Food Safety Legislation (F4ESL)
	<u>2011</u>	RIVM-prize for the most successful SPR-project "Ticks: Trojan Horses"
	2010	Course on R: Statistical computing (RIVM)
	2010	International course on Molecular Evolution (Český Krumlov)
	2009	Course on Biological Safety Level-3 (RIVM)
	2008	Certificate From Farm to Fork Food Safety Specialist (F4ST, 9 ECTS)
	2008	Course on Bioinformatics/Bionumerics (Applied-Maths)
	<u>2005</u>	NVBMB-prize "Biochemist of the Year"
	1994	Course on Health Physics expert level 4B (Technical University Delft)
	1994	Course on Handling laboratory animals (Article 9; Utrecht University)
	1993	Course on Biological Safety Level-2 (also in 2008; Utrecht University & RIVM)
<b>Organisation</b>	2017	LWT-Trusted advisor (RIVM-academy)
	<u>2015</u>	RIVM-acknowledgement for "Team of the year"
	<u>2015</u>	RIVM-acknowledgement for "Transboundary efforts in infectious disease control"
	2015	Personal effectiveness training (Schouten & Nelissen)
	<u>2011</u>	RIVM-acknowledgement for "Acquisition" and "(Inter)national networking"
	2010	Course "Internal audit" (V-Kam education)
	2009	Advanced course on Project management (Horizon Training & Development)
	<u>2008</u>	RIVM-acknowledgement for "Expertise" en "Integrative collaboration"
	2001	First-aid and reanimation courses (also in 1989, 1992, 1995)
	1992	Advanced training "Supervision of primitive expeditions" (Scouting)
	1989	Basic training "Supervision of primitive expeditions" (Scouting)
<b>Teaching</b>	2005	Certificate "University Teaching Qualification" (Utrecht University)
	<u>2005</u>	Grassroots-initiative prize for technology-enhanced learning (Utrecht University)
	2004	Certificate "Supervising master/bachelor students" (Utrecht University)

### 3. Summary of scientific achievements

#### 3a Fate and functions of cell lipids

- Cellular organization of sphingolipid metabolism, intracellular transport and membrane translocation
  - Discovery of multidrug-resistant proteins as pumps of membrane lipids
  - Elucidation of various roles of glycosphingolipids in protein sorting: both rafts and organellar acidification
1. Van Helvoort A, Smith A, Sprong H, Fritzsche I, Schinkel A, Borst P, van Meer G (1996) MDR1 P-glycoprotein is a lipid translocase of broad specificity, while MDR3 P-glycoprotein specifically translocates phosphatidylcholine. *Cell Reviews in Molecular Cell Biology*
  2. Sprong H, van der Sluijs P, van Meer G (2001) How proteins move lipids and lipids move proteins. *Nature Reviews in Molecular Cell Biology*
  3. Sprong H (2007) Pre- and post-Golgi translocation of glucosylceramide in glycosphingolipid synthesis. *Journal of Cell Biology*
  4. Sprong H, Degroote S, Claessens T, van Drunen J, Oorschot V, Westerink B.H.C, Hirabayashi Y, Klumperman J, van der Sluijs P, van Meer G (2001) Glycosphingolipids are required for sorting of melanosomal proteins in the Golgi complex. *Journal of Cell Biology*

#### 3b Intercellular transport of lipid-modified proteins

- Discovery of a general mechanism that lipid-modified proteins are transported between cells and tissues on lipoproteins, and that this has (patho)physiological implications
5. Sprong H\*, Panakova D., Marois E, Thiele C, Eaton S (2005) Lipoprotein particles are required for Hedgehog and Wingless signalling. *Nature*. \*Contributed equally
  6. Sprong H, Suchanek M, van Dijk S, Klumperman J, van Remoortere A, Avram D, van Hellemond J, Thiele C (2006) Release of Schistosoma mansoni glycoproteins on host lipoproteins allows antigen endocytosis via the LDL-receptor and lipoprotein endocytosis via the Fc-receptor. *Plos Medicine*

#### 3c Molecular epidemiology of parasitic zoonoses

- Unravelling of the zoonotic potential and transmission dynamics of *Giardia duodenalis*
7. Sprong H, Cacciò S, van der Giessen J, on behalf of ZOOPNET partners (2009) Identification of zoonotic genotypes of *Giardia duodenalis*. *Plos Neglected Tropical Diseases*
  8. Robertson L, Sprong H, van der Giessen J, Ortega Y, Fayer R (2013) Impacts of globalization on foodborne parasites. *Trends in Parasitology*

#### 3d Emergence of tick-borne diseases

- Contributions to the emergence and diagnosis of tick-borne diseases in Europe
9. Rijks J, Montizaan M, Bakker N, de Vries A, Van Gucht S, Swaan C, van den Broek J, Gröne A, Sprong H (2019). Tick-Borne Encephalitis Virus Antibodies in Roe Deer, the Netherlands. *Emerg Infect Dis*
  10. Jahfari S, Hofhuis A, van der Giessen J, van Pelt W, Sprong H (2016) Molecular Detection of Tick-Borne Pathogens in Humans with Tick Bites and Erythema Migrans, in the Netherlands (2016) *PLoS Negl Trop Dis*
  11. Sarksyan D, Platonov A, Karan L, Shipulin G, Sprong H, Hovius J (2015) Probability of Spirochete *Borrelia miyamotoi* Transmission from Ticks to Humans. *Emerg Infect Dis*
  12. Hovius J, de Wever B, Sohne M, Brouwer M, Coumou J, Wagelmakers A, Oei A, Knol H, Narasimhan S, Hodiamont CJ, Jahfari S, Pals S, Horlings H, Fikrig E, Sprong H, van Oers M (2013) A case of meningoencephalitis by the relapsing fever spirochaete *Borrelia miyamotoi* in Europe. *Lancet*

#### 3e Eco-epidemiology of vector-borne pathogens

- Contributions to the role of vertebrate hosts and communities to the transmission dynamics of tick-borne pathogens
13. Heylen D, Fonville M, Matthysen E, Sprong H (2013) Songbirds as general transmitters but selective amplifiers of *Borrelia burgdorferi* sensu lato genotypes in *Ixodes ricinus* ticks. *Environmental Microbiology*
  14. Heylen D, Fonville M, Docters van Leeuwen A, Sprong H (2015) Co-infection and transmission dynamics of a tick-borne bacterium community exposed to songbirds. *Environmental Microbiology*
  15. Hofmeester T, Coopan E, van Wieren S, Prins H, Takken W, Sprong H. (2016) Few vertebrate species dominate the *Borrelia burgdorferi* s.l. life cycle. *Environ Res Lett*
  16. Takumi K, Sprong H, Hofmeester T (2019) Impact of vertebrate communities on *Ixodes ricinus*-borne disease risk in forest areas. *Parasit & Vectors*

#### 4. Teaching experience

As an assistant professor (UD) at the Faculty of science (Utrecht University, 2003-2007), I acquired the **basic teaching qualification** (Basis Kwalificatie Onderwijs, 2005), and was involved in different aspects of the education (0.4fte) of **bachelor** and **master** students from three faculties (Science, Medicine, and Veterinary Medicine) as well as from University College Utrecht. With my innovations in web-based teaching, I won the Grassroots-initiative prize for **technology-enhanced learning** (2005, Utrecht University). Since the beginning of my academic career (1996-now), I have been actively involved in the guidance and supervision of **bachelor** and **master** students (~ 2 internships/yr) from all kinds of biomedical faculties with their theses/practical work. A report of these activities is available upon request. Since my appointment at the RIVM (2007), I occasionally have given **guests lectures** to master students (Utrecht University and Wageningen University).

For the Institute for Life Sciences & Chemistry, **Hogeschool Utrecht**, I am member of the "College van Toezicht" (since 2010). This activity supports their students and teachers in the final steps of the education (**quality assurance**). Since 2018, I am also member of the "Beroepenveld-commissie" (since 2018), which advises the institute on their **curriculum**.

#### *Involvement in PhD-trainings as thesis advisor (co-promotor) or as co-supervisor*

#	Name	Institute	Role	Defence	Title
1	M. Suchanek	MPI-CBG	Co-supervisor	2005	Regulation of lipid homeostasis: Mechanisms of sterol sensing
2	J. Wolthoorn	UU	Thesis advisor	2006	Cellular fate and functions of glucosylceramide
3	D. Halter	UU	Thesis advisor	2007	Transport and translocation of glucosylceramide
4	S. Neumann	UU	Thesis advisor	2008	Proteins mediating intra- and intercellular transport of lipids and lipid-modified proteins
5	S. Hötzl	UU	Co-supervisor	2009	Sphingolipid topology and membrane protein nanoclusters
6	S. van der Poel	UU	Co-supervisor	2010	Regulation of organelle pH by glycosphingolipids.
7	E. Tijssse-Klasen	EUR/WUR	Thesis advisor	-	Tick-borne pathogens - reversed and conventional discovery of disease
8	C. Coopan	WUR	Thesis advisor	2016	Maintenance of <i>Borrelia burgdorferi</i> s.l. diversity in enzootic cycles
9	G. van Duijvendijk	WUR	Thesis advisor	2016	The ecology of Lyme borreliosis risk
10	T. Hofmeester	WUR	Co-supervisor	2016	The wild life of tick-borne pathogens
11	S. Jahfari	EUR/UvA	Thesis advisor	2017	Tick-borne diseases: Opening Pandora's box
12	A. HofHuis	UU	Thesis advisor	2017	Epidemiology of Lyme borreliosis and other tick-borne diseases
13	S. Ruyts	Gent University	Thesis advisor	2017	Ecological interactions between ticks, hosts, and forest types: Impact on Lyme borreliosis risk
14	J. Koetsveld	UvA	Thesis advisor	2020	Other tick-borne diseases in the limelight
15	A. Krawczyk	WUR	Thesis advisor	2021*	Eco-epidemiology of <i>Ixodes ricinus</i> symbionts
16	T. Azagi	UvA	Thesis advisor		Tick-borne diseases: Opening Pandora's box. PART 2
17	D. Hoornstra	UvA	Thesis advisor		Tick-borne diseases: Opening Pandora's box. PART 3
18	J. Bakker	WUR	Co-supervisor		Transmission dynamics of tickborne encephalitis virus
19	N. Fabri	UU	Co-supervisor		Role of large grazers in Lyme borreliosis risk
20	M. de Cock	WUR	Co-supervisor		Rats and rat-borne pathogens in changing environments

#### *Member of thesis advisory committee*

- 2020 Dr. Emilie Lejal (Université Paris-Est)
- 2017 Dr. Perrin (University of Salford, Manchester)
- 2016 Dr. Coumou (UVA)
- 2014 Dr. Huang (WUR)
- 2014 Dr. Mweresa (WUR)
- 2011 Dr. Schuijt (UVA)
- 2010 Dr. Cao (EUR)

## 5. Institutional responsibilities

### 5a Scientific activities

1. Member of the **editorial board** of *Parasites & Vectors* (2011-)
2. **Editor** of the book: Ecology and Control of Vector-borne diseases, Volume 4: Ecology and prevention of Lyme borreliosis (2016) Editors: Braks, Van Wieren, Takken and Sprong. Wageningen Academic Publishers.
3. **Reviewer of grants** from the CNRS (FR), ANCS (RO), SNSF (CH), UG (CA), NSCP (PL), NCST (KZ), GACR (CZ), COST (EU), **manuscripts** (~20 annually) for peer-reviewed scientific journals, and **research groups** (HCÉRES, SCIENSANO)
4. Organisation of **symposia/meetings**

- 2021 Virutal 16th International Conference on Lyme Borreliosis and other tick-borne diseases, Amsterdam  
 2019 Kick-off meeting VectorNet (with ECDC/EFSA), Stockholm  
 2018 ANTIDotE workshop "Anti-tick vaccines", during ICLB 2018, Atlanta  
 2017 Four-day workshop for Israeli/Palestinian scientists in The Netherlands on vector-borne diseases  
 2016 Two-day scientific symposium on "Ticks and Tick-borne pathogens", Wageningen (TickTactics III)  
 2016 Three-day ANTIDotE workshop "Development and implementation of anti-tick vaccines", Berlin  
 2015 Six-day workshop for Israeli/Palestinian scientists in The Netherlands on vector-borne diseases  
 2014 Scientific symposium on "Ticks and Tick-borne pathogens", Amsterdam (TickTactics II)  
 2013 Symposium on "Nature management & Lyme disease", Bilthoven  
 2013 Two-day European expert-meeting Laboratory diagnosis of Lyme Borreliosis, Amsterdam (ECDC)  
 2010 Session on "Tick-borne diseases: From mice to men" on the NVMM spring symposium  
 2010 Scientific symposium on Ticks and Tick-borne pathogens", Amsterdam (TickTactics I)  
 2009 One-day MedVetNet symposium "European networks for human and animal health", Utrecht  
 2007 Joint meeting of the Dutch, German and French societies for glycobiology, Lille  
 2006 NVMB spring symposium: "Order and Disorders of Cell Lipids", Utrecht

### 5b Policy advises

- 2021 Advise (letter) on the control of ticks (VWS)  
 2021 Advise (letter) on the evaluation of the DWHC (VWS/LNV)  
 2019 Advise (letter) on introduction and establishment of *Hyalomma* ticks (VWS)  
 2019 Advise (letter) on control actions and options for *Ixodes ricinus* (VWS)  
 2018 WHO R&D Blueprint Roadmaps: Consultation on Crimean-Congo Haemorrhagic Fever (WHO)  
 2016 ISO standard 18744 "Microbiology of the food chain - Detection and enumeration of Cryptosporidium and Giardia in fresh leafy green vegetables and berry fruits (ISO Standards)  
 2014 Technical report: The diagnostic accuracy of serological tests for Lyme Borreliosis (ECDC)  
 2014 Risk assessment "Care Plus Tekentest" Front Office Food Safety Authority (nVWA)  
 2013 National Health Counsel "Lyme onder de Loep" (Dutch Parliament)  
 2013 Surveillance of food-related pathogens in The Netherlands (nVWA)  
 2010 Emerging zoonoses: Early warning and surveillance in the Netherlands (VWS)

### 5d Committees

- 2019- Member expert Group "Preparedness and Response West-Nile Virus" (Clb)  
 2018- Member WHO-taskforce on the R&D Blueprint Roadmaps for Crimean-Congo Haemorrhagic Fever  
 2016- Member expert Group "Tick-borne encephalitis" (Clb)  
 2011- Member advisory committee of the Centre Monitoring Vectors (nVWA)  
 2009- Member Expert Group "Toolkit Ticks & Lyme" (Clb)

### 5e Previous committees

- 2015-2019 MC member COST-action FA1408: European Network for Foodborne Parasites (Euro-FBP)  
 2013-2017 MC member COST-action TD1303: European Neglected Vector-borne diseases (EURNEGVEC)  
 2012-2016 Advisory Board van European Concerted Action on Lyme Borreliosis (EUCALB)  
 2011-2016 European Study Group for Lyme Borreliosis, Ecological risk and prevention (ESCMID-ESGBOR)  
 2010-2016 Expert Group of ISO/TC34/SC9/WG6 Cryptosporidium and Giarda in Food (NEN)  
 2011-2015 Consensus Counsel Supportive laboratory tests for diagnosing Lyme borreliosis (NVMM with RIVM)  
 2011-2013 Advisory committee on Lyme borreliosis national Health Counsel (VWS)  
 2012 Expert advise meeting tick-borne diseases in Western Europe, Lelystad (CVI)  
 2010-2012 Scientific board of the Centre of Infectious disease control (Clb)  
 2010 Expert Group *Cryptosporidium*: Disease and Product analysis (Discontools, FP7)  
 2010 Expert advise meeting "Tick bites and Lyme borreliosis" (Clb)

## 6. Special projects

### **6a Peace building project in Israel/Palestine(2012-2017)**

I am involved as an advisor in a project from the Ministry of Foreign Affairs entitled "Vector-Borne Pathogens in Israel and the Palestinian Authority". The foremost aim of the project is to facilitate the peace-building process between Israeli and Palestinian scientists. My task was to participate with the joint meetings in Israel/Palestine, and to organize several visits and meetings for (young) Israeli/Palestinian researchers in Europe/The Netherlands. The project has been running for approximately 6 years and has been a big success, not only from the scientific and one health perspective, but most importantly: this project literally brought young Israeli and Palestinian scientists closer together. For everybody, it was extremely important to experience that on the other side ordinary people live, striving to have a normal life. Both sides used to have a completely wrong picture of the other: They (only) see each other's terrorists, brutal border police, aggressive colonists etc. I think I learnt that the best policy makers can do nowadays is peace keeping, but the peace building process has to come from the people, starting with a few individuals that set an example. I think that is a great opportunity (and maybe even a responsibility) for academia to set this example.

### **6b Mobile laboratory for the rapid diagnosis of EBOLA in Freetown, Sierra Leone (2015)**

The most widespread outbreak of Ebola virus disease (EVD) in the history was in West Africa between 2013 and 2016. This outbreak caused major loss of life and socioeconomic disruption in the region, mainly in Guinea, Liberia, and Sierra Leone, with more than 11,000 reported death. The Dutch government supplied three mobile laboratories for the rapid diagnosis of EVD. These BSL-3 labs were built in a sea container, having the state-of the art laboratory equipment available. Together with a medical microbiologist, a technician and a PhD-student, we manned this laboratory for five weeks in the centre of Freetown, Sierra Leone. We supported the diagnosis for sick children (Ola During Children's Hospital) and pregnant women (Princess Christian Maternity Hospital). These extremely poor children and women only could get access to free medical care after being tested for EVD. The presence of our laboratory shortened the time for diagnosis from two days to six hours, and therefore many lives could be saved. Consortium leader of VectorNet, which is a joint initiative of EFSA and ECDC. Vectornet supports all aspects of the European collection of data on vectors and pathogens in vectors, related to both animal and human health.

## 7. Acquisition of research grants

- 2019 InterReg/NSR (**5.696 k€**) with Per-Eric Lindgren and many others  
North-Tick: A Competence Network to Improve Public Service Delivery based on a One Health
- 2019 ECDC/EFSA Tender (**1.600 k€**) with Marieta Braks
- 2018 VectorNext: European collection of data on vectors and their pathogens related to One health  
FWO-SB (**400 k€**) With Erik Matthysen
- 2017 Prioritizing Lyme borreliosis risk areas for forest and nature management based on tick ecology  
NWO Graduate Programme (**500 k€**) with Nannet Fabri, Hans Heesterbeek and Joris Cromsigt
- 2016 Unravelling the deer box: the role of different deer species in Lyme borreliosis ecology  
ZonMw (**900 k€**) with Joppe Hovius and others
- 2015 Ticking on Pandora's box: Development of diagnostic modalities for tick-borne diseases  
WIV-ISP: (**290 k€**) with Katrien Tersago and others
- 2014 HumTick: Tick-borne diseases in Belgium: identifying and communicating disease burden  
ZonMw (**500 k€**) with Wilfrid van Pelt and many others
- 2014 Lyme-prospect: Long-term effects and determinants for persisting symptoms after Lyme borreliosis  
ZonMw (**500 k€**) with Marion Koopmans (EUR) and many others
- 2014 Eco-alert: critical control points for early warning of arboviral emergence  
ECDC-tender (**12 k€**) with Mariska Leeflang (AMC)
- 2013 Critical appraisal of the reliability of laboratory test for Lyme borreliosis in the EU, part II  
FP7-Health (**3.200 k€**) with Joppe Hovius
- 2013 ANTIDotE: Anti-tick Vaccines to Prevent Tick-borne Diseases in Europe
- 2013 COST-action with Andrei Mihalca and many others
- 2012 EURNEGVEC - European network for neglected vectors and vector-borne infections  
ECDC-tender (**90 k€**) with Mariska Leeflang
- 2012 Critical appraisal of the reliability of laboratory test for Lyme borreliosis in the EU, part I
- 2012 ZonMw (**500 k€**) with Kees van den Wijngaard
- 2011 Tick Test & Prophylaxis Proof
- 2011 VWS/PG (**1.350 k€**) with Willem Takken and Sip van Wieren
- 2011 Prevention of Lyme borreliosis by control of ticks and tick bites
- 2011 Bioinformatics program Clb (**36 k€**) with K. Takumi
- 2010 Zoonotic transmission of Giardia with MLST-data: Recombination or mixed infection?
- 2010 ZonMw (**70 k€**) with Joppe Hovius
- 2010 TICX: Ticks Infected with Coxiella burnetii: an epidemiological pilot study
- 2010 SPR-RIVM (**997 k€**) with Johan Reimerink
- 2010 Application of proteomics-based screening assays
- 2010 SPR-RIVM (**1.687 k€**) with Willem Takken and Sip van Wieren
- 2010 Control of tick-borne diseases: Shooting the messenger
- 2010 SPR-RIVM (**1.000 k€**) with Daan Notermans
- 2009 Biomarkers for long-term sequels of Q fever
- 2009 MedVetNet-JPA5 (**35 k€**) met S. Cacciò (ISS, Rome)
- 2008 Improvement of the ZOOPNET-database and reference material for *Giardia* and *Cryptosporidium*
- 2008 Short-term visit grant MedVetNet for visit to Istituto Superiore di Sanità, Rome (**5 k€**)
- 2008 SPR-RIVM (**426 k€**) with Johan Reimerink
- 2007 Ticks: Trojan horses with new surprises.
- 2007 Ara Parseghian Medical Research Foundation (**250 k\$**) with Gerrit van Meer
- 2007 Niemann-Pick-C1 pumping simple glycosphingolipids
- 2007 NWO-STW (**625 k€**) with Han Wösten, and Henk Bosch
- 2006 Production of therapeutic proteins in mushroom
- 2006 NWO-ECHO (**222 k€**) with Gerrit van Meer
- 2006 How glycolipids sort membrane proteins

## 8. Outreach in media

1. *Chemisch2Weekblad* (2005) Membraangeheimen
2. *Nature* (2005) News and views: Morphogens hitch a greasy ride
3. *Zorgkrant* (2006) Geraffineerde misleidingsstruc van parasiet ontdekt
4. *Scienceguide* (2006) Parasiet blijkt truc te hanteren
5. *Journal of Cell Biology* (2007) Comments: A lipid transfer protein that transfers lipid
6. *De Nederlandse Jager* (2009) Jagen op de Jager, teken als overbrengers van ziekteverwekkers
7. *Infectieziekten Bulletin* (2010) Vragen uit de praktijk: Kan een verwijderde teek worden onderzocht op Lyme?
8. *De Nederlandse Jager* (2010) Vossenbejaging, alleen in weidevogelgebieden en vroege voorjaar?
9. *De Nederlandse Jager* (2011) Jagen op met Q-koortsbacterie geïnfecteerde teken: Implicaties voor mens en dier
10. *Verenigingsblad van Hoveniers en Groenvoorzieners* (2012) Teken in het groen
11. *De Nederlandse Jager* (2012) Terugdringen aantal teken mogelijk?
12. *Vakblad Natuur Bos Landschap* (2013) Lyme: nieuwe mogelijkheden voor risicobeheersing
13. *Vakblad Natuur Bos Landschap* (2014) Door teken overgebrachte ziektes in Europa
14. *Het Parool* (2014) Teek wordt de oorlog verklaard
15. *Nature* (2015) The growing global battle against blood-sucking ticks
16. *Infectieziektenbulletin* (2015) Achtergronden bij inzet Nederlandse mobiele laboratoria in West Afrika
17. *De Nederlandse Jager* (2016) Teken-encefalitis nu ook aangetoond in Nederland
18. *Bionieuws* (2017) Uitdijende cirkel rond teken
19. *Elsevier* (2017) Teken veroorzaken meer dan Lyme: blijf toch lekker binnen!
20. *FNV-magazine* (2017) Met eenvoudige maatregelen kun je aantal tekenbeten verminderen
21. *SNP-magazine* (2017) Teken en hun beten: Dit moet je weten
22. *Vakblad Natuur Bos Landschap* (2017) Perspectieven op teken
23. *NRC-Next* (2017) Pas op voor de beet van de teek & Van beet naar leed
24. *Plus Magazine* (2017) Nooit meer bang voor een tekenbeet
25. *De Neuroloog* (2017) Teken-encefalitis duikt op in Nederland
26. *AD* (2017) Ook Nederlandse teek veroorzaakt levensbedreigende vleesallergie
27. *De Volkskrant* (2017) Beet van schapenteek kan oorzaak zijn van vleesallergie
28. *NPO radio 1* (2017) Teken zijn overal, maar hoe voorkom je een tekenbeet?
29. [www.waarzitwatin.nl](http://www.waarzitwatin.nl) (2018) Anti-tekenmiddel
30. *Entomologische berichten* (2018) Uitgelezen: Ecology and prevention of Lyme borreliosis
31. *Vakblad Natuur Bos Landschap* (2018) Ontwikkelingen rond de teek
32. *AD* (2019) RIVM start groot onderzoek naar nieuw oprukkend tekenvirus
33. *PZC* (2019) Pas op! Gevaarlijk nieuw tekenvirus rukt op
34. *Hortipoint* (2019) RIVM onderzoekt duizenden teken op TBEV
35. [www.factcheckvlaanderen.be](http://www.factcheckvlaanderen.be) (2019) Migranten brengen geen met Krim-Congovirus besmette teken naar België
36. *AD* (2019) Tropische 'horrorsteek' overwinterde bij Nederlandse grens, maar geen reden voor paniek
37. *RTV-Drenthe* (2019) Odoorer reuzenteek blijkt inderdaad tropische hyalommateek
38. *NRC-Next* (2019) In Drenthe gevonden 'reuzenteek' inderdaad Hyalomma
39. [www.kampeerclub.nl](http://www.kampeerclub.nl) (2019) NTKC faciliteert tekenonderzoek RIVM en WUR
40. *AD* (2019) Frits liep gevaarlijk TBE-tekenvirus op en is er slecht aan toe
41. *De Stentor* (2019) 7 vragen aan de onderzoekers die ruim 15.000 teken testen op levensgevaarlijk virus
42. [www.radar.nl](http://www.radar.nl) (2019) Hoe gevaarlijk is de reuzenteek?
43. *RTL-nieuws* (2019) RIVM bevestigt vondst tropische reuzenteek in Drenthe
44. *Trouw* (2019) De reuzenteek: actief op zoek naar bloed
45. *RO magazine* (2020) Groen is goed- maar onder bepaalde voorwaarden
46. *Vakblad Natuur Bos Landschap* (2021) Haperende maaiers: Schapen in de problemen door tekenbeetziekte

**Guest speaker**

- 2017 ANSES/INRA, UMR BIPAR, Maisons-Alfort (**Muriel Vayssier**, *Ecology and prevention of Lyme borreliosis*)  
2017 University of Antwerp, Evolutionary Ecology Group (**Erik MatthySEN**, *Transmission dynamics of tick-borne pathogens*)  
2016 Swedish University of Agricultural Sciences, Umea (**Hussein Khalil**, *Ecology and prevention of Lyme borreliosis*)  
2015 University of Veterinary Medicine , Budapest (**Gabor Foldvari**, *tick-borne diseases in urban areas*)  
2014 Hebrew University of Jerusalem, School of Veterinary Medicine (**Shimon Harrus**, *Surveillance of vectorborne diseases*)  
2012 Bavarian Health and Food Safety Authority Munich (**Volker Fingerle**, *Molecular typing of *Borrelia burgdorferi* senso lato*)  
2012 Al-Quds Nutrition and Health Research Institute, Tel Aviv (**Ziad Abdeen**, *Molecular Ecology of Lyme disease*)  
2012 Hebrew University of Jerusalem, School of Veterinary Medicine (**Shimon Harrus**, *Control of Tick-borne diseases*)  
2012 Wageningen university, Resource ecology Group (**Sip van Wieren**, *Lyme disease*)  
2011 Robert-Koch Institute, Berlin (**Martin Groschup**, *Eden-next, Surveillance of vectorborne diseases*)  
2011 Institute Veterinary Medicine and Tropical institute, Munich (**Kurt Pfister**, *Tick-borne pathogens*)  
2010 University of Antwerp, Evolutionary Ecology Group (**Erik MatthySEN**, *Ecology of *Borrelia burgdorferi* senso lato*)  
2010 University of Amsterdam, Academic Medical Centre (**Joppe Hovius**, *Lyme borreliosis*)  
2008 Istituto Superiore di Sanità, Rome (**Simone Cacciò**, *Molecular epidemiology of Giardia*)  
2007 University of Strasbourg, Institut de Biologie Moléculaire et Cellulaire (**Eric Marois**, *Lipoproteins and signalling*)  
2007 University of Heidelberg, Biochemie-Zentrum (**Felix Wieland**, *Fate and function of glycosphingolipids*)  
2007 University of Bern, Institute of Cell Biology (**Peter Butikofer**, *Role of lipid-modifications on secretory proteins*)  
2005 Utrecht university, Faculty of veterinary medicine (**Jaap van Hellemond**, *Lipid-modifications of schistosomes*)  
2004 Leiden university, Faculty of medicine (**Maria Yazdanbakhsh**, *Lipid-modifications in the immune system*)  
2002 Utrecht university, Faculty of chemistry (**Gerrit van Meer**, *Lipid-modifications in embryonic development*)  
2001 Marie Curie Institute, Paris (**Philippe Chavrier**, *Fate and function of glycosphingolipids*)  
2001 Max-Planck Institute for Molecular Cell Biology and Genetics, Dresden (**Christoph Thiele**, *Cellular sphingolipids*)

### Scientific publications Hein Sprong (June 2021)

1. Kik M, Jaarsma R, Ijzer J, Sprong H, Gröne A, Rijks (2021) Bartonella alsatica in wild and domestic rabbits (*Oryctolagus cuniculus*) in The Netherlands. **Microbiology research**
2. Estrada-Peña, A, Cevadanes A, Sprong H, Millán J (2021) Pitfalls in Tick and Tick-Borne Pathogens Research, Some Recommendations and a Call for Data Sharing. **Pathogens**
3. Hoornstra D, Harms M, Gauw S, Wagemakers A, Azagi T, Kremer K, Sprong H, van den Wijngaard C, Hovius J (2021) Ticking on Pandora's box: a prospective case-control study into 'other' tick-borne diseases. **BMC Infectious Diseases**
4. Uiterwijk M, Ibáñez-Justicia A, van de Vossenberg B, Jacobs F, Overgaauw P, Nijssse R, Dabekaußen C, Stroo A, Sprong H (2021) Imported Hyalomma ticks in the Netherlands 2018-2020. **Parasites & Vectors**
5. Azagi T, Jaarsma R, Docters van Leeuwen A, Fonville M, Maas M, Franssen F, Kik M, Rijks J, Montizaan M, Groeneveld M, Hoyer M, Esser H, Krawczyk A, Modrý D, Sprong H, Demir S (2021) Circulation of Babesia species and their exposure to humans through Ixodes ricinus. **Pathogens**
6. Hartemink N, van Vliet A, Gort G, Gassner F, Jacobs F, Fonville M, Takken W, Sprong H (2021) Seasonal patterns and spatial variation of *Borrelia burgdorferi* (*sensu lato*) infections in *Ixodes ricinus* in the Netherlands. **Parasites & Vectors**
7. Lesiczkova P, Hrazdilová K, Majerová K, Fonville M, Sprong H, Höning V, Hofmannová L, Papežík P, Růžek D, Zurek L, Votýpková J, Modrý D (2021) The Role of Peridomestic Animals in the Eco-Epidemiology of *Anaplasma phagocytophilum*. **Microbial Ecology**
8. Takumi K, Hofmeester TR, Sprong H (2021) Red and fallow deer determine the density of *Ixodes ricinus* nymphs containing *Anaplasma phagocytophilum*. **Parasites & Vectors**
9. Majerová K, Höning V, Houda M, Papežík P, Fonville M, Sprong H, Rudenko N, Golovchenko M, Černá Bolíková B, Hulva P, Růžek D, Hofmannová L, Votýpková J, Modrý D (2021) Hedgehogs, Squirrels, and Blackbirds as Sentinel Hosts for Active Surveillance of *Borrelia miyamotoi* and *Borrelia burgdorferi* Complex in Urban and Rural Environments. **Microorganisms**
10. Trentelman J, Sima R, Krezdon N, Tomás-Cortázar J, Barrales D, Takumi K, Butler J, Sprong H, Klouwens M, Urbanova V, Mahmood S, Winter P, Kopacek P, Anguita J, Hajdusek O, Hovius J (2021) A combined transcriptomic approach to identify candidates for an anti-tick vaccine blocking *B. afzelii* transmission. **Scientific Reports**
11. Wagemakers A, Sprong H, Platonov A, Hovius J (2020) Commentary: *Borrelia miyamotoi*: 43 Cases Diagnosed in France by Real-Time PCR in Patients With Persistent Polymorphic Signs and Symptoms. **Frontiers in Medicine**
12. Garcia-Vozmediano A, Krawczyk A, Sprong H, Rossi L, Ramassa E, Tomassone L (2020) Ticks climb the mountains: Ixodid tick infestation and infection by tick-borne pathogens in the Western Alps. **Ticks and Tick-Borne Diseases**
13. Coimbra-Dores M, Jaarsma R, Carmo A, Maia-Silva M, Fonville M, Costa D, Brandão R, Azevedo F, Casero M, Oliveira A, Afonso S, Sprong H, Rosa F, Dias D. Mitochondrial sequences of *Rhipicephalus* and *Coxiella* endosymbiont reveal evidence of lineage co-cladogenesis (2020) **FEMS Microbiology Ecology**
14. Krawczyk A, Bakker J, Koenraadt C, Fonville M, Takumi K, Sprong H, Demir S. Tripartite interactions among *Ixodiphagus hookeri*, *Ixodes ricinus* and deer: differential interference with transmission cycles of tick-borne pathogens (2020) **Pathogens**
15. Harms M, Hofhuis A, Sprong H, Bennema S, Ferreira J, Fonville M, Docters van Leeuwen A, Assendelft P, van Weert H, van Pelt W, van den Wijngaard C. A single prophylactic dose doxycycline for the prevention of Lyme borreliosis after an *Ixodes ricinus* tick bite (2020) **Journal of Infection**
16. Boyer P, Koetsveld J, Zilliox L, Sprong H, Talagrand-Rebiul E, Hansmann Y, de Martino S, Boulanger N, Hovius J, Jaulhac B. Assessment of *Borrelia miyamotoi* in febrile patients and ticks in Alsace, an endemic area for Lyme borreliosis in France (2020) **Parasites & Vectors**
17. Azagi T, Hoornstra D, Kremer K, Hovius J, Sprong H. Evaluation of disease causality of rare *Ixodes ricinus*-borne infections in Europe (2020) **Pathogens**
18. Hoornstra D, Sprong H, Hovius J. Ziek door een tekenbeet: meer dan Lymeziekte (2020) **Nederlands Tijdschrift voor Geneeskunde**
19. Vreugdenhil M, Leeflang M, Bont J, Hovius J, Sprong H, Pols J, van Weert H. Serological testing for Lyme borreliosis in general practice; a qualitative study among Dutch general practitioners (2020) **European Journal of General Practice**
20. Pollet T, Sprong H, Lejal E, Krawczyk A, Moutailler S, Cosson J, Vayssier-Taussat M, Estrada-Peña A. The scale affects our view on the identification and distribution of microbial communities in ticks (2020) **Parasites & Vectors**
21. Norte C, Margos G, Becker N, Ramos J, Núncio M, Fingerle V, Araújo P, Adamík P, Alivizatos H, Barba E, Barrientos R, Cauchard L, Csörgő T, Diakou A, Dingemanse N, Doligez B, Dubiec A, Eeva T, Flaisz B, Grim T, Hau M, Heylen D, Hornok S, Kazantzidis S, Kováts D, Krause F, Literák I, Mänd R, Mentésana L, Morinay J, Mutanen M, Neto J, Nováková M, Sanz J, Silva L, Sprong H, Tirri I, Török J, Trilar T, Tyller Z, Visser M, Lopes de Carvalho I. Host dispersal shapes the population structure of a tick-borne bacterial pathogen (2020) **Molecular ecology**
22. Krawczyk A, van Duijvendijk G, Swart A, Heylen D, Jaarsma R, Jacobs F, Fonville M, Sprong H, Takken W. Effect of rodent density on tick and tick-borne pathogen populations: Consequences for infectious disease risk (2020) **Parasites & Vectors**
23. Sprong H, Moonen S, van Wieren S, Hofmeester T. Effects of cattle grazing on *Ixodes ricinus*-borne disease risk in forest areas of the Netherlands (2020) **Ticks and Tick-borne Diseases**
24. Hofmeester T, Bügel E, Hendrikx B, Maas M, Franssen F, Sprong H, Matson K. Parasite load and site-specific parasite pressure as determinants of immune indices in two sympatric rodent species (2019) **Animals**
25. Hamšíková Z, Silaghi C, Takumi K, Rudolf I, Venclíková K, Sprong H, Kazimírová M. Presence of roe deer affects the occurrence of *Anaplasma phagocytophilum* ecotypes in questing *Ixodes ricinus* in different habitat types of central Europe (2019) **International Journal of Environmental Research and Public Health**
26. Kuleshov K, Hoornstra D, Sprong H, Platonov A, Hovius J. Draft Whole Genome Sequence of Two Western European *Borrelia miyamotoi* Isolates (2019) **Microbiology resource announcements**
27. Tió-Coma M, Sprong H, Kik M, van Dissel J, Han X, Pieters T, Geluk A. Lack of evidence for the presence of Leprosy Bacilli in Red Squirrels from North-West Europe (2019) **Transboundary and Emerging Diseases**
28. van Heusden H, Voet W, Sprong H, Brandwagt D, Thijssen S. Tick-borne encephalitis (TBE) in Nederland (2020) **Nederlands Tijdschrift voor Geneeskunde**
29. Lernout T, De Regge N, Tersago K, Fonville M, Suin V, Sprong H. Prevalence of pathogens in ticks collected from humans through citizen science in Belgium (2019) **Parasites and Vectors**
30. Von Löwenich F, Seckert C, Dauber E, Kik M, de Vries A, Sprong H, Buschmann K, Aardema M, Brandstetter M. (2019) Prosthetic Valve Endocarditis with *Bartonella washoensis* in a Human European Patient and its Detection in Red Squirrels (*Sciurus vulgaris*). **Journal of Clinical Microbiology**

31. Norte A, Lopes de Carvalho I, Núncio M, Araújo P, Matthysen E, Albino Ramos J, Sprong H, Heylen D. Getting under the birds' skin: tissue tropism of *Borrelia burgdorferi* s.l. in naturally and experimentally infected avian hosts (2019) **Microbial Ecology**
32. Jaarsma R, Sprong H, Takumi K, Kazimirova M, Silaghi C, Mysterud A, Rudolf I, Beck R, Foldvari G, Tomassone L, Groeneveld M, Everts R, Rijks J, Ecke F, Hornfeldt B, Modry D, Majerova K, Votypka J, Estrada-Pena A. Anaplasma phagocytophilum evolves in geographical and biotic niches of vertebrates and ticks (2019) **Parasites and Vectors**
33. Koetsveld J, Platonov A, Kuleshov K, Wagemakers A, Hoornstra D, Ang W, Szekeres S, van Duijvendijk G, Fikrig E, Embers M, Sprong H, Hovius J. *Borrelia miyamotoi* infection leads to cross-reactive antibodies to the C6 peptide in mice and men (2019) **Clinical Microbiology and Infection**
34. Mihajlovic J, Hovius J, Sprong H, Bogovic P, Postma M, Strle F. Cost-effectiveness of a potential anti-tick vaccine with combined protection against Lyme borreliosis and tick-borne encephalitis in Slovenia (2019) **Ticks and Tick-borne Diseases**
35. Rego R, Trentelman J, Anguita J, Nijhof A, Sprong H, Klempa B, Hajdusek O, Tomas-Cortazar J, Azagi T, Strnad M, Knorr S, Sima R, Jalovecka M, Fumacova Havlikova S, Lickova M, Slavikova M, Kopacek P, Grubhoffer L, Hovius J. Counterattacking the tick bite: Towards a rational design of anti-tick vaccines targeting pathogen transmission (2019) **Parasites and Vectors**
36. Wheeler S, Haberkant P, Bhardwaj M, Tongue P, Ferraz M, Halter D, Sprong H, Schmid R, Aerts J, Sullo N, Sillence D. Cytosolic glucosylceramide regulates endolysosomal function in Niemann-Pick type C disease (2019) **Neurobiology of Disease**
37. Sprong H, Fonville M, Docters van Leeuwen A, Devillers E, Ibanez-Justicia A, Stroo A, Hansford K, Cull B, Medlock J, Heyman P, Cochez C, Weis L, Silaghi C, Moutailler S. Detection of pathogens in *Dermacentor reticulatus* in northwestern Europe: evaluation of a high-throughput array (2019) **Heliyon**
38. Mysterud A, Stigum V, Jaarsma R, Sprong H. Genospecies of *Borrelia burgdorferi* sensu lato detected in 16 mammal species and questing ticks from northern Europe (2019) **Scientific Reports**
39. McKee C, Krawczyk A, Sandor A, Gorfol T, Foldvari M, Dekeukeleire D, Haarsma A, Kosoy M, Webb C, Sprong H. Host phylogeny, geographic overlap, and roost sharing shape parasite communities in European bats (2019) **Frontiers in Ecology and Evolution**
40. Takumi K, Sprong H, Hofmeester T. Impact of vertebrate communities on *Ixodes ricinus*-borne disease risk in forest areas (2019) **Parasites and Vectors**
41. Stigum V, Jaarsma R, Sprong H, Rolandsen C, Mysterud A. Infection prevalence and ecotypes of *Anaplasma phagocytophilum* in moose *Alces alces*, red deer *Cervus elaphus*, roe deer *Capreolus capreolus* and *Ixodes ricinus* ticks from Norway (2019) **Parasites and Vectors**
42. Braks M, Giglio G, Tomassone L, Sprong H, Leslie T.E. Making vector-borne disease surveillance work: New opportunities from the SDG perspectives (2019) **Frontiers in Veterinary Science**
43. Vrijmoeth H, Ursinus J, Harms M, Zomer T, Gauw S, Tulen A, Kremer K, Sprong H, Knoop H, Vermeeren Y, Van Kooten B, Joosten L, Kullberg B, Hovius J, Van Den Wijngaard C. Prevalence and determinants of persistent symptoms after treatment for Lyme borreliosis: Study protocol for an observational, prospective cohort study (LymeProspect) (2019) **BMC Infectious Diseases**
44. Esser H, Mogling R, Cleton N, Van Der Jeugd H, Sprong H, Stroo A, Koopmans M, De Boer W, Reusken C. Risk factors associated with sustained circulation of six zoonotic arboviruses: A systematic review for selection of surveillance sites in non-endemic areas (2019) **Parasites and Vectors**
45. Szekeres S, Docters van Leeuwen A, Toth E, Majoros G, Sprong H, Foldvari G. Road-killed mammals provide insight into tick-borne bacterial pathogen communities within urban habitats (2019) **Transboundary and Emerging Diseases**
46. Hartemink N, Van Vliet A, Sprong H, Jacobs F, Garcia-Marti I, Zurita-Milla R, Takken W. Temporal-Spatial Variation in Questing Tick Activity in the Netherlands: The Effect of Climatic and Habitat Factors (2019) **Vector-Borne and Zoonotic Diseases**
47. Rijks J, Montizaan M, Bakker N, de Vries A, Van Gucht S, Swaan C, van den Broek J, Grone A, Sprong H. Tick-borne encephalitis virus antibodies in roe deer, The Netherlands (2019) **Emerging Infectious Diseases**
48. Heylen D, Lasters R, Adriaensen F, Fonville M, Sprong H, Matthysen E. Ticks and Tick-borne Diseases in the city: Role of landscape connectivity and green space characteristics in a metropolitan area (2019) **Science of the Total Environment**
49. Leeflang M, Van Weert H, Hovius J, Wim Ang C, Sprong H. [Dilemma: To test or not to test for Lyme disease in general practice?] Dilemma: Wel of niet testen op lymeziekte in de huisartsenpraktijk? (2018) **Nederlands Tijdschrift voor Geneeskunde**
50. Van Duijvendijk G, Van Andel W, Fonville M, Gort G, Hovius J, Sprong H, Takken W. A *Borrelia Afzelii* infection increases larval tick burden on *myodes glareolus* (Rodentia: Cricetidae) and Nymphal Body Weight of *Ixodes ricinus* (Acar: Ixodidae) (2018) **Journal of Medical Entomology**
51. Hovius E, De Bruin A, Schouls L, Hovius J, Dekker N, Sprong H. A lifelong study of a pack Rhodesian ridgeback dogs reveals subclinical and clinical tick-borne *Anaplasma phagocytophilum* infections with possible reinfection or persistence (2018) **Parasites and Vectors**
52. Hornok S, Szoke K, Estok P, Krawczyk A, Haarsma A, Kovats D, Boldogh S.A, Morandini P, Szekeres S, Takacs N, Kontschán J, Meli M, Fernandez de Mera I, de la Fuente J, Gyuranecz M, Sulyok K, Weibel B, Gonczi E, de Bruin A, Sprong H, Hofmann-Lehmann R. Assessing bat droppings and predatory bird pellets for vector-borne bacteria: molecular evidence of bat-associated *Neorickettsia* sp. in Europe (2018) Antonie van Leeuwenhoek, **International Journal of General and Molecular Microbiology**
53. Hoornstra D, Koetsveld J, Sprong H, Platonov A, Hovius J. *Borrelia miyamotoi* disease in an immunocompetent patient, Western Europe (2018) **Emerging Infectious Diseases**
54. Sprong H, Azagi T, Hoornstra D, Nijhof A, Knorr S, Baarsma M, Hovius J. Control of Lyme borreliosis and other *Ixodes ricinus*-borne diseases (2018) **Parasites and Vectors**
55. Santos A, de Bruin A, Veloso A, Marques C, Pereira da Fonseca I, de Sousa R, Sprong H, Santos-Silva M. Detection of *Anaplasma phagocytophilum*, *Candidatus Neoehrlichia* sp., *Coxiella burnetii* and *Rickettsia* spp. in questing ticks from a recreational park, Portugal (2018) **Ticks and Tick-borne Diseases**
56. Kinkar L, Laurimae T, Acosta-Jamett G, Andriescu V, Balkaya I, Casulli A, Gasser R, Gonzalez L, Haag K, Zait H, Irshadullah M, Jabbar A, Jenkins D, Manfredi M, Mirhendi H, M'rad S, Rostami-Nejad M, Oudni-M'rad M, Pierangeli N, Ponce-Gordo F, Rehbein S, Sharbatkhori M, Kia E, Simsek S, Soriano S, Sprong H, Snabel V, Umhang G, Varcasia A, Saarma U. Distinguishing *Echinococcus granulosus* sensu stricto genotypes G1 and G3 with confidence: A practical guide (2018) **Infection, Genetics and Evolution**
57. Kazimirova M, Hamsikova Z, Spitalska E, Minichova L, Mahrikova L, Caban R, Sprong H, Fonville M, Schnittger L, Kocianova E. Diverse tick-borne microorganisms identified in free-living ungulates in Slovakia (2018) **Parasites and Vectors**
58. Sandor A.D, Foldvari M, Krawczyk A.I, Sprong H, Corduneanu A, Barti L, Gorfol T, Estok P, Kovats D, Szekeres S, Laszlo Z, Hornok S, Foldvari G. Eco-epidemiology of Novel *Bartonella* Genotypes from Parasitic Flies of Insectivorous Bats (2018) **Microbial Ecology**

59. Ravagnan S, Tomassone L, Montarsi F, Krawczyk A, Mastorilli E, Sprong H, Milani A, Rossi L, Capelli G. First detection of *Borrelia miyamotoi* in *Ixodes ricinus* ticks from northern Italy (2018) **Parasites and Vectors**
60. Kinkar L, Laurimae T, Acosta-Jamett G, Andresiuk V, Balkaya I, Casulli A, Gasser R.B, van der Giessen J, Gonzalez L.M, Haag K, Zait H, Irshadullah M, Jabbar A, Jenkins D, Kia E, Manfredi M, Mirhendi H, M'rad S, Rostami-Nejad M, Oudni-M'rad M, Pierangeli N, Ponce-Gordo F, Rehbein S, Sharbatkhori M, Simsek S, Soriano S, Sprong H, Snabel V, Umhang G, Varcasia A, Saarma U. Global phylogeography and genetic diversity of the zoonotic tapeworm *Echinococcus granulosus* sensu stricto genotype G1 (2018) **International Journal for Parasitology**
61. Ruyts S, Landuyt D, Ampoorter E, Heylen D, Ehrmann S, Coipan E, Matthysen E, Sprong H, Verheyen K. Low probability of a dilution effect for Lyme borreliosis in Belgian forests (2018) **Ticks and Tick-borne Diseases**
62. Tomassone L, Berriatua E, De Sousa R, Duscher G, Mihalca A.D, Silaghi C, Sprong H, Zintl A. Neglected vector-borne zoonoses in Europe: Into the wild (2018) **Veterinary Parasitology**
63. Gondard M, Michelet L, Nisavanh A, Devillers E, Delannoy S, Fach P, Aspan A, Ullman K, Chirico J, Hoffmann B, Van Der Wal F.J, De Koeijer A, Van Solt-Smits C, Jahfari S, Sprong H, Mansfield K.L, Fooks A.R, Klitgaard K, Bodker R, Moutailler S. Prevalence of tick-borne viruses in *Ixodes ricinus* assessed by high-throughput real-time PCR (2018) **Pathogens and Disease**
64. Hofmeester T, Krawczyk A, Docters van Leeuwen A, Fonville M, Montizaan M, Van Den Berge K, Gouwy J, Ruyts S, Verheyen K, Sprong H. Role of mustelids in the life-cycle of ixodid ticks and transmission cycles of four tick-borne pathogens (2018) **Parasites and Vectors**
65. Coipan C, Van Duijvendijk G, Hofmeester T, Takumi K, Sprong H. The genetic diversity of *Borrelia afzelii* is not maintained by the diversity of the rodent hosts (2018) **Parasites and Vectors**
66. Laaksonen M, Klemola T, Feuth E, Sormunen J, Puisto A, Makela S, Penttinen R, Ruohomaki K, Hanninen J, Saaksjarvi I, Vuorinen I, Sprong H, Hytonen J, Vesterinen E. Tick-borne pathogens in Finland: Comparison of *Ixodes ricinus* and *I. persulcatus* in sympatric and parapatric areas (2018) **Parasites and Vectors**
67. Ruyts S, Tack W, Ampoorter E, Coipan E, Matthysen E, Heylen D, Sprong H, Verheyen K. Year-to-year variation in the density of *Ixodes ricinus* ticks and the prevalence of the rodent-associated human pathogens *Borrelia afzelii* and *B. miyamotoi* in different forest types (2018) **Ticks and Tick-borne Diseases**
68. Estrada-Pena A, D'Amico G, Palomar A, Dupraz M, Fonville M, Heylen D, Habela M, Hornok S, Lempereur L, Madder M, Nuncio M, Otranto D, Pfaffle M, Plantard O, Santos-Silva M, Sprong H, Vatansever Z, Vial L, Mihalca A. A comparative test of ixodid tick identification by a network of European researchers (2017) **Ticks and Tick-borne Diseases**
69. Takken W, Van Vliet A, Verhulst N, Jacobs F, Gassner F, Hartemink N, Mulder S, Sprong H. Acarological risk of borrelia burgdorferi sensu lato infections across space and time in the Netherlands (2017) **Vector-Borne and Zoonotic Diseases**
70. van Duijvendijk G, Gort G, Sprong H, Takken W. Behavioural responses of *Ixodes ricinus* nymphs to carbon dioxide and rodent odour (2017) **Medical and Veterinary Entomology**
71. Hamsikova Z, Coipan C, Mahrikova L, Minichova L, Sprong H, Kazimirova M. *Borrelia miyamotoi* and Co-Infection with *Borrelia afzelii* in *Ixodes ricinus* Ticks and Rodents from Slovakia (2017) **Microbial Ecology**
72. Wagemakers A, Jahfari S, de Wever B, Spanjaard L, Starink M.V, de Vries H, Sprong H, Hovius J. *Borrelia miyamotoi* in vectors and hosts in The Netherlands (2017) **Ticks and Tick-borne Diseases**
73. Heylen D, Krawczyk A, Lopes de Carvalho I, Nuncio M, Sprong H, Norte A. Bridging of cryptic *Borrelia* cycles in European songbirds (2017) **Environmental Microbiology**
74. Hofmeester T, Jansen P, Wijnen H, Coipan E, Fonville M, Prins H, Sprong H, Van Wieren S. Cascading effects of predator activity on tick-borne disease risk (2017) **Proceedings of the Royal Society B: Biological Sciences**
75. Bos J.H, Klip F, Sprong H, Broens E, Kik M. Clinical outbreak of babesiosis caused by *Babesia capreoli* in captive reindeer (*Rangifer tarandus tarandus*) in the Netherlands (2017) **Ticks and Tick-borne Diseases**
76. Hofmeester T, Sprong H, Jansen P, Prins H, Van Wieren S. Deer presence rather than abundance determines the population density of the sheep tick, *Ixodes ricinus*, in Dutch forests (2017) **Parasites and Vectors**
77. Jahfari S, Krawczyk A, Coipan E, Fonville M, Hovius J, Sprong H, Takumi K. Enzootic origins for clinical manifestations of Lyme borreliosis (2017) **Infection, Genetics and Evolution**
78. Jahfari S, Sarksyan D.S, Kolyasnikova N, Hovius J, Sprong H, Platonov A. Evaluation of a serological test for the diagnosis of *Borrelia miyamotoi* disease in Europe (2017) **Journal of Microbiological Methods**
79. Silaghi C, Santos A, Gomes J, Christova I, Matei I.A, Walder G, Domingos A, Bell-Sakyi L, Sprong H, Von Löwenich F, Oteo J, De La Fuente J, Dumler J. Guidelines for the Direct Detection of *Anaplasma* spp. in Diagnosis and Epidemiological Studies (2017) **Vector-Borne and Zoonotic Diseases**
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